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UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
INTERNATIONAL TELECOMMUNICATION UNION
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Seconde édition de l'Annexe 1 à l'Accord régional (Genève, 1975)

contenant:

le Plan d'assignations de fréquence pour les stations de radiodiffusion à ondes kilométriques et hectométriques (Régions 1 et 3)

l'Appendice 1 au Plan — Canaux pour émetteurs de faible puissance

l'Appendice 2 au Plan — Gain de l'antenne (en dB)

(Novembre 1981)

Second Edition of Annex 1 to the Regional Agreement (Geneva, 1975)

containing:

Frequency Assignment Plan for LF/MF Broadcasting Stations (Regions 1 and 3)

Appendix 1 to the Plan — Low-Power Channels

Appendix 2 to the Plan — Antenna Gain (dB)

(November 1981)

Segunda Edición del Anexo 1 al Acuerdo Regional (Ginebra, 1975)

que contiene:

el Plan de asignación de frecuencias a las estaciones de radiodifusión por ondas kilométricas y hectométricas (Regiones 1 y 3)

el Apéndice 1 al Plan — Canales de baja potencia

el Apéndice 1 al Plan — Ganancia de antena (en dB)

(Noviembre de 1981)

AVIS IMPORTANT

Le présent volume contient **uniquement** la seconde édition de l'**Annexe 1** à l'Accord régional (Genève, 1975), c'est-à-dire:

— le Plan d'assignations de fréquence (pages 12A-230 des Actes finals),

— l'Appendice 1 au Plan — Canaux pour émetteurs de faible puissance (pages 230A-279 des Actes finals, lequel a été publié en édition séparée en mai 1978),

— l'Appendice 2 au Plan — Gain de l'antenne (en dB) (pages 280A-338 des actes finals, lequel a été publié en édition séparée en novembre 1978).

Les Actes finals de la Conférence administrative régionale de radiodiffusion à ondes kilométriques et hectométriques (Régions 1 et 3), Genève, 1975, ne figurent PAS dans le présent volume, à l'exception de l'Annexe 1, et doivent par conséquent être conservés.

IMPORTANT NOTICE

The present volume contains the Second Edition of **Annex 1** to the Regional Agreement, Geneva, 1975, **only** i.e.

— the Frequency Assignment Plan (pages 12A-230 of the Final Acts),

— Appendix 1 to the Plan — Low-Power Channels (pages 230A-279 of the Final Acts and published separately in May 1978),

— Appendix 2 to the Plan — Antenna Gain (dB) (pages 280A-338 of the Final Acts and published separately in November 1978).

The Final Acts of the Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3), Geneva, 1975, except Annex 1, are NOT the subject of the present volume and should be retained.

AVISO IMPORTANTE

El presente volumen contiene **únicamente** la Segunda Edición del **Anexo 1** al Acuerdo Regional (Ginebra, 1975), es decir:

— el Plan de asignación de frecuencias (páginas 12A-230 de las Actas Finales),

— el Apéndice 1 al Plan — Canales de baja potencia (véanse las páginas 230A-279 de las Actas Finales y la publicación separada de mayo de 1978),

— el Apéndice 2 al Plan — Ganancia de la antena (en dB) (véanse las páginas 280A-338 de las Actas Finales y la publicación separada de noviembre de 1978).

Con excepción del Anexo 1, en el presente volumen NO se publican las Actas Finales de la Conferencia Administrativa Regional de Radiodifusión por ondas kilométricas y hectométricas (Regiones 1 y 3), Ginebra, 1975, por lo que deben conservarse.

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Seconde édition de l'Annexe 1 à l'Accord régional (Genève, 1975)

contenant:

le Plan d'assignations de fréquence pour les stations de radiodiffusion à ondes kilométriques et hectométriques (Régions 1 et 3)

l'Appendice 1 au Plan — Canaux pour émetteurs de faible puissance

l'Appendice 2 au Plan — Gain de l'antenne (en dB)

(Novembre 1981)

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Appendix 2 to the Plan — Antenna Gain (dB)

(November 1981)

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el Apéndice 1 al Plan — Ganancia de antena (en dB)

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NOTE EXPLICATIVE

1. La présente édition du Plan a été préparée et publiée conformément aux paragraphes 3.5.5 et 3.5.6 de l'article 4 de l'Accord régional de radiodiffusion à ondes kilométriques et hectométriques (Genève, 1975). Cette deuxième édition du Plan tient compte de toutes les modifications, adjonctions et suppressions qui ont été apportées au Plan et à ses appendices 1 et 2 et qui ont été publiées en application de l'article 4 dans les parties B et C des sections spéciales de la circulaire de l'IFRB pendant la période comprise entre le 23 novembre 1978 et le 22 novembre 1981 (N° BC75/1/1344 à N° BC75/20/1499).

2. On remarquera que l'*Explication des symboles utilisés dans la colonne 'Observations'*» comprend deux parties. La *Partie 1* donne l'explication des symboles figurant dans les Actes finals de la Conférence, exception faite des symboles 3, 4/..., 10, 12, 13, 16 et 29 qui ne sont plus utilisés en raison d'accords conclus entre les administrations intéressées ou de l'expiration des dates spécifiées par la Conférence; ces symboles périmés sont accompagnés de l'indication «plus utilisé dans le Plan» et leur explication a été supprimée. La note de bas de page «(24)», qui ne figurait qu'en regard de certaines assignations intéressant l'Albanie, n'a pas été appliquée; le Comité, après avoir examiné les documents de la Conférence et consulté l'Administration albanaise a constaté que cette note n'était pas applicable et l'a en conséquence supprimée. La *Partie 2* contient les nouveaux symboles adoptés par le Comité pour tenir compte des cas résultant de l'application de la procédure relative aux modifications apportées au Plan (article 4 de l'Accord régional).

3. En ce qui concerne les rapports de puissance, toute puissance P(kW) apparaissant dans le Plan devra être convertie en un rapport dBW, en vue d'une notification conforme aux dispositions de l'article 12 du Règlement des radiocommunications (Genève, 1979) et de l'appendice 1 audit Règlement lorsqu'une assignation est mise en service aux termes de l'article 5 de l'Accord régional. Cette conversion peut se faire en utilisant la formule suivante:

$$P(dBW) = 10 \log P(kW) + 30$$

Pour plus de commodité, on trouvera à la page VIII un tableau indiquant les rapports de puissance exprimés en dB par rapport à 1 watt.

EXPLANATORY NOTE

1. The present edition of the Plan has been prepared and published in accordance with paragraphs 3.5.5 and 3.5.6 of Article 4 of the Regional LF/MF Broadcasting Agreement, Geneva, 1975. This Second Edition of the Plan contains all changes and additions to, and deletions from, the Plan and its Appendices 1 and 2 which have been published as a result of the Article 4 procedure in Parts B and C of Special Sections of the IFRB Circular covering the period from 23 November 1978 to 22 November 1981 (No. BC75/1/1344 to No. BC75/20/1499).

2. It will be noted that the "*Explanation of symbols used in the 'Remarks' Column*" comprises two Parts. *Part 1* contains the explanations appearing in the Final Acts of the Conference except that symbols 3, 4/..., 10, 12, 13, 16 and 29 are no longer used as a consequence of agreements reached between the Administrations concerned or the expiry of the dates specified by the Conference as the case may be. These symbols are annotated "No longer used in the Plan" and the explanations have been deleted. Footnote "(24)", which appeared only against certain Albanian assignments, has not been applied and the Board having examined the documents of the Conference and consulted with the Administration of Albania, has found that this footnote is not applicable. It has therefore been removed. *Part 2* contains the new symbols adopted by the Board to cover situations resulting from the application of the procedure for modifications to the Plan (Article 4 of the Regional Agreement).

3. With reference to power ratios, any power P(kW) shown in the Plan will need to be converted to the ratio dBW for notification under Article 12 of the Radio Regulations, Geneva, 1979, and Appendix 1 thereto when an assignment is being put into use in accordance with Article 5 of the Regional Agreement. This conversion may be made by using the following formula:

$$P(dBW) = 10 \log P(kW) + 30$$

For ease of reference a Table showing power ratios expressed in dB with respect to 1 watt is reproduced on page VIII.

NOTA EXPLICATIVA

1. La presente edición del Plan se ha preparado y publicado de conformidad con los puntos 3.5.5 y 3.5.6 del artículo 4 del Acuerdo Regional de Radiodifusión por ondas kilométricas y hectométricas (Ginebra, 1975). Esta segunda edición del Plan contiene todas las modificaciones, adiciones y supresiones en el Plan y sus apéndices 1 y 2, publicadas, en cumplimiento de lo previsto en el artículo 4, en las Partes B y C de las Secciones Especiales de la Circular de la IFRB en el periodo comprendido entre el 23 de noviembre de 1978 y el 22 de noviembre de 1981 (número BC75/1/1344 a número BC75/20/1499).

2. Se observará que la « *Explicación de símbolos utilizados en la columna 'Observaciones'*» comprende dos Partes. La *Parte 1* contiene las explicaciones que aparecen en las Actas Finales de la Conferencia, salvo que los símbolos 3, 4/..., 10, 12, 13, 16 y 29 ya no se utilizan por efecto de acuerdos concluidos entre las Administraciones interesadas o de la expiración de los plazos especificados por la Conferencia. Estos símbolos llevan la indicación « No utilizado en el Plan », y se han suprimido las explicaciones. La nota « (24) », que aparecía solamente frente a algunas asignaciones de Albania, no se ha aplicado; la Junta, tras haber examinado los documentos de la Conferencia y consultado a la Administración de Albania, ha llegado a la conclusión de que esta nota no es aplicable. Por tanto, se ha suprimido. La *Parte 2* contiene los nuevos símbolos adoptados por la Junta para las situaciones resultantes de la aplicación del procedimiento de modificación del Plan (artículo 4 del Acuerdo Regional).

3. Con referencia a las relaciones de potencia, será necesario convertir toda potencia P(kW) indicada en el Plan en relación dBW, para su notificación según el artículo 12 del Reglamento de Radiocomunicaciones (Ginebra, 1979) y el apéndice 1 al mismo, cuando se ponga en servicio una asignación de conformidad con el artículo 5 del Acuerdo Regional. Esta conversión puede hacerse utilizando la siguiente fórmula:

$$P(dBW) = 10 \log P(kW) + 30$$

Para facilitar la referencia, a la pagina VIII se reproduce un cuadro que muestra las relaciones de potencia expresadas en dB con relación a 1 vatio.

TABLEAU — Puissance en kW exprimée en dBW

TABLE — Power in kW expressed in dBW

CUADRO — Potencia en kW expresada en dBW

kW	dBW
0.1	20
0.2	23
0.3	24.8
0.4	26
0.5	27
0.7	28.5
0.8	29
1	30
1.5	31.8
2	33
2.5	34
3	34.8
4	36
5	37
6	37.8
7	38.5
8	39
9	39.5
10	40
15	41.8
20	43
25	44
30	44.8
40	46
50	47
60	47.8
70	48.5
80	49
90	49.5
100	50
150	51.8
200	53
250	54
300	54.8
400	56
500	57
600	57.8
700	58.5
800	59
900	59.5
1000	60
1500	61.8
2000	63

Annexe 1 à l'Accord régional, Genève, 1975

Plan d'assignations de fréquence aux stations de radiodiffusion dans les bandes des ondes hectométriques (à l'exception des stations utilisant les canaux pour émetteurs de faible puissance) dans les Régions 1 et 3 et dans les bandes des ondes kilométriques dans la Région 1

Genève, 1975

Deuxième édition, novembre 1981
(Accord régional, Genève, 1975, article 4,
paragraphes 3.5.5 et 3.5.6)

RENSEIGNEMENTS INCLUS DANS LES COLONNES DU PLAN

Colonne 1: *Fréquence assignée du canal*, en kHz.
Numéro du canal; ce numéro est indiqué entre parenthèses.

Colonne 2: *Nom de la station d'émission.* Le symbole S figurant à gauche de la ligne pointillée indique que la station fait partie d'un réseau synchronisé dont les autres stations portent le même symbole (voir sous Définitions, Chapitre 1 de l'Annexe 2 à l'Accord régional).

Colonne 3: *Symbole désignant le pays* ou la zone géographique où est située la station (voir le Tableau N° 1 de la Préface à la Liste internationale des fréquences).

Colonne 4: *Coordonnées géographiques de la station d'émission*, en degrés et minutes.

Colonne 5: *Largeur de bande nécessaire*, en kHz; la valeur en kHz est précédée du symbole A, B, C ou D qui indique le rapport de protection dans le canal adjacent à employer pour le calcul du champ utilisable. Les différents cas correspondant à ces symboles sont mentionnés dans le paragraphe 4.4.2 de l'Annexe 2 à l'Accord.

Colonne 6: *Puissance de l'onde porteuse*, en kW.

Colonne 7: *Rayonnement maximal*, en dB, par rapport à une f.c.m. de 300 V ou par rapport à une p.a.r.v. de 1 kW; ce rayonnement est déterminé à partir de la puissance nominale de l'émetteur et du gain théorique de l'antenne sans tenir compte des pertes diverses.

Colonne 8: *Azimut de rayonnement maximal*, en degrés à partir du Nord vrai, dans le sens des aiguilles d'une montre.

Colonne 9: *Azimuts définissant le secteur à rayonnement limité*, en degrés à partir du Nord vrai, dans le sens des aiguilles d'une montre.

Colonne 10: *Rayonnement maximal admis dans le secteur*, en dB, par rapport à une f.c.m. de 300 V ou par rapport à une p.a.r.v. de 1 kW; ce rayonnement est déterminé à partir de la puissance nominale de l'émetteur et du gain théorique de l'antenne sans tenir compte des pertes diverses.

Colonne 11: *Type d'antenne.* Le symbole A indique une antenne verticale simple alimentée à la base; le symbole B désigne tout autre type d'antenne dont la description figure dans l'Appendice 2 au Plan.

Colonne 12: *Hauteur de l'antenne* en mètres, seulement dans le cas d'une antenne verticale simple.

Colonne 13: *Conductivité du sol.* Les chiffres 1 à 9 figurant dans cette colonne se rapportent aux figures 1 à 9 contenues dans le chapitre 2 de l'Annexe 2 à l'Accord régional (page 341 des Actes finals de la Conférence). Le chiffre 1 renvoie à la figure 1, le chiffre 2 renvoie à la figure 2, et ainsi de suite.

Colonne 14: *Horaire de fonctionnement* (UTC) en heures et minutes. Exemples: 0730-1800, 0000-2400, 0500-0230.

Colonne 15: *Observations* indiquées par des symboles dont la signification est donnée dans les pages suivantes.

SIGNIFICATION DES SYMBOLES UTILISÉS DANS LA COLONNE «OBSERVATIONS»

(COLONNE 15 DU PLAN ET COLONNE 11 DE L'APPENDICE 1 AU PLAN)

PARTIE 1

Symboles adoptés par la Conférence administrative régionale de radiodiffusion à ondes kilométriques et hectométriques, Genève 1975

1. (Non utilisé).

2./.../... Pendant la période de l'année indiquée entre les deux groupes de quatre chiffres séparés par une barre oblique et dont chacun représente une date, l'assignation est utilisée conformément à l'horaire qui figure dans la colonne 14.

3. (Non utilisé).

4./... (Non utilisé).

5./... Cette assignation doit être coordonnée avec/...

6. Assignation française pour une station fonctionnant en République fédérale d'Allemagne.

7. Cette assignation est utilisée de jour dans les limites d'horaire de la Figure 20 de l'Annexe 2 à l'Accord.

8. L'azimut de rayonnement maximal peut être modifié par accord avec l'Administration de la Tchécoslovaquie, cette dernière demande que dans le secteur 320° à 340°, le gain soit limité à -8 dB.

9. L'Administration polonaise prendra des mesures techniques additionnelles pour réduire les brouillages dans la zone de service de la station de Rhodos sur 1 260 kHz afin que la contribution du réseau synchronisé polonais au champ utilisable de cette station ne dépasse pas 85 dB (μV/m). La coordination définitive sera faite bilatéralement entre la Grèce et la Pologne.

10. (Non utilisé).

11./... L'inscription de cette assignation dans le Plan a été demandée par/...

12. (Non utilisé).

13. (Non utilisé).

14. (Non utilisé).

15. L'horaire d'émission de jour de cette assignation est déterminé d'après les considérations du paragraphe 3.3.4.3 de l'Annexe 2 à l'Accord. En hiver, il ne dépassera pas 0900-1600 UTC, sauf accord entre administrations intéressées.

16. (Non utilisé).

17./... Les discussions relatives à cette assignation n'ont pas abouti à un accord avec les Administrations de/...

18./... Les discussions relatives à cette assignation n'ont pas abouti à un accord satisfaisant avec les Administrations de/... Cependant les administrations concernées ont convenu de poursuivre les discussions en vue d'aboutir à un accord satisfaisant.

19. La largeur de bande en audiofréquence est fixée à 4,5 kHz en utilisant, de plus, une forte compression de la modulation (cas D du paragraphe 4.4.2.1 du chapitre 4 de l'Annexe 2), sous réserve que les émetteurs des autres pays qui fonctionnent dans les canaux adjacents et qui sont susceptibles de causer un brouillage utilisent également le procédé correspondant au cas D.

20. L'Administration française recherchera avec l'Administration compétente d'Andorre les moyens pratiques de réaliser dans la station de Sud-Radio une antenne directive permettant de réduire le rayonnement de cette station dans les directions de Varsovie (secteur compris entre les azimuts 45° et 55°) et de Rabat (secteur compris entre les azimuts 210° et 225°). Ces dispositions feront l'objet d'études entre les administrations intéressées en vue de la coordination souhaitée.

21. (Non utilisé).

22. 1 467 kHz utilisation de nuit;
594 kHz utilisation de jour.

23./... La coordination de cette assignation pendant la Conférence n'a pas été possible pour une raison ou une autre avec les Administrations de/...
Cependant les administrations intéressées se proposent de rechercher ensemble les bases d'un accord satisfaisant.

24. Les discussions relatives à cette assignation n'ont pas pu avoir lieu avec l'Administration d'Israël, du fait que l'administration qui a demandé cette assignation ne reconnaît pas cette Administration. En conséquence, les dispositions de l'article 12 du Règlement des radiocommunications seront appliquées à la présente assignation vis-à-vis des assignations de l'autre administration.

25. Cette assignation est utilisée pendant la période du jour comprise dans les limites de fonctionnement indiquées par les courbes pointillées de la Figure 21 de l'Annexe 2 à l'Accord.

26./... L'horaire d'émission de cette assignation devra faire l'objet d'une coordination avec l'Administration de/... sur la base de la Figure 20 de l'Annexe 2 à l'Accord.

27. L'Administration du Royaume de l'Arabie Saoudite et l'Administration de la République Socialiste Fédérative de Yougoslavie sont convenues de l'horaire de fonctionnement suivant pour l'émetteur de Guriat (612 kHz)4

1er avril-31 octobre: de 0300 à 1600 h UTC.
1er novembre-31 mars: de 0500 à 1400 h UTC.

Les deux Administrations sont disposées à rechercher de concert une solution meilleure que celle indiquée ci-dessus, afin de répondre de façon satisfaisante aux besoins des deux parties.

28. Après négociation, les Administrations de la Grèce et de la Libye sont convenues que lorsque les stations libyennes seront mises en service, leur contribution au brouillage, en Grèce, ne dépassera pas 79 dB.

29. (Non utilisé).

30. La délégation polonaise formule des réserves à l'égard des brouillages nuisibles causés sur le territoire de la République Populaire de Pologne, à la réception des émissions du réseau synchronisé polonais fonctionnant sur la fréquence 1 206 kHz, par la station de München-Ismaning et estime qu'une coordination bilatérale supplémentaire est nécessaire.

31. Cette assignation cessera d'être utilisée de jour dans les limites de la Figure 20 de l'Annexe 2 à l'Accord lors de la mise en service de la station de Mocimboa (MOZ) sur la fréquence 1 224 kHz.

32. Les valeurs indiquées dans les colonnes 7, 8, 9 et 10 sont provisoires jusqu'à conclusion d'un accord entre les Administrations de la Syrie et de la République fédérale d'Allemagne.

33. Les discussions relatives à cette assignation n'ont pas pu avoir lieu, du fait que les Administrations de l'Algérie, l'Arabie Saoudite, l'Egypte, les Emirats Arabes Unis, la Jordanie, le Koweït, le Liban, la Libye, le Maroc, la Mauritanie, le Qatar, le Soudan, la Tunisie, la R. A. du Yémen et la R. D. P. du Yémen, ne reconnaissent pas l'Administration qui a demandé cette assignation. En conséquence, les dispositions de l'article 12 du Règlement des radiocommunications seront appliquées à cette assignation vis-à-vis des assignations des Administrations précitées.

PARTIE 2

Symboles supplémentaires adoptés par l'I.F.R.B. à la suite de l'application de la procédure de l'article 4 de l'Accord régional, Genève 1975

41./ Cette assignation ne sera pas utilisée simultanément avec l'assignation, sur la même fréquence, qui est identifiée par le nom de la station qui suit la barre oblique.

42./ Cette inscription est provisoire, car elle cessera d'être utilisée dès la mise en service de la station dont le nom est indiqué après la barre oblique.

43./ Cette assignation cessera d'être utilisée à la date indiquée par les six chiffres qui suivent la barre oblique.

44./ L'horaire de fonctionnement de cette assignation sera de 0500-1800 UTC dès que l'assignation de la fréquence 1 503 kHz à la station Ulcinj sera mise en service.

45./ Cette assignation, qui fait partie d'un réseau synchronisé, ne sera pas utilisée simultanément avec l'assignation ou les assignations identifiée(s) par le symbole 46 ou 47, selon le cas, dans la colonne « Observations », et faisant partie d'un autre réseau synchronisé, sur la même fréquence et appartenant à la même administration.

46. Cette assignation, qui fait partie d'un réseau synchronisé, cessera d'être utilisée dès que seront mises en service les assignations d'un autre réseau synchronisé, sur la même fréquence et appartenant à la même administration, identifiées par le symbole 45 dans la colonne « Observations ».

47. Cette assignation ne sera pas utilisée simultanément avec les assignations qui font partie d'un réseau synchronisé, sur la même fréquence et appartenant à la même administration, et qui sont identifiées par le symbole 45 dans la colonne « Observations ».

48./.../.../... Dans le secteur compris entre ...° et ...°, la puissance est réduite à ... kW.

49./. Cette inscription désigne une assignation de fréquence à une station de radiodiffusion mobile de faible puissance. Cette station peut émettre d'un point fixe quelconque situé à l'intérieur du territoire délimité par le polygone que définit un nombre déterminé d'emplacements d'émission, dont chacun fait l'objet d'une inscription semblable à la présente inscription. Le nombre de ces emplacements est indiqué après la barre oblique.

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Annex 1 to the Regional Agreement, Geneva, 1975

Plan for the Assignment of Frequencies to Broadcasting Stations in the Medium Frequency Bands (other than to Stations using Low-Power Channels) in Regions 1 and 3 and in the Low Frequency Bands in Region 1

Geneva, 1975

Second Edition, November 1981
(Regional Agreement, Geneva, 1975, Article 4,
paragraphs 3.5.5 and 3.5.6)

INFORMATION INCLUDED IN THE COLUMNS OF THE PLAN

Column 1: *Assigned channel frequency* (kHz).
Channel number; this number is shown in brackets.

Column 2: *Name of transmitting station.* The symbol S appearing to the left of the dotted line indicates that the station forms part of a synchronized network, the other stations of which bear the same symbol (see Definitions, Chapter 1 of Annex 2 to the Regional Agreement).

Column 3: *Symbol designating the country* or the geographical area in which the station is located (see Table No. 1 of the Preface to the International Frequency List).

Column 4: *Geographical coordinates of the transmitting station* in degrees and minutes.

Column 5: *Necessary bandwidth* (kHz); the value in kHz is preceded by the symbol A, B, C or D indicating the adjacent channel protection ratio that is to be employed in calculating the usable field strength. The cases corresponding to these symbols are listed in 4.4.2 of Annex 2 to the Agreement.

Column 6: *Carrier power* (kW).

Column 7: *Maximum radiation* in dB relative to a c.m.f. of 300 V or an e.m.r.p. of 1 kW, determined from the nominal power of the transmitter and the theoretical gain of the antenna without allowing for miscellaneous losses.

Column 8: *Azimuth of maximum radiation* in degrees (clockwise) from True North.

Column 9: *Azimuths defining the sector of limited radiation* in degrees (clockwise) from True North.

Column 10: *Maximum agreed radiation in the sector,* in dB relative to a c.m.f. of 300 V or an e.m.r.p. of 1 kW determined from the nominal power of the transmitter and the theoretical gain of the antenna without allowing for miscellaneous losses.

Column 11: *Type of antenna.* The symbol A indicates a simple vertical base-fed antenna and the symbol B any other type of antenna described in Appendix 2 to the Plan.

Column 12: *Height of antenna* (metres) for a simple vertical antenna only.

Column 13: *Ground conductivity.* The numbers 1 to 9 appearing in this column refer to Figures 1 to 9 in Chapter 2 of Annex 2 to the Regional Agreement (page 341 of the Final Acts of the Conference). The number 1 denotes Figure 1, 2 denotes Figure 2, etc.

Column 14: *Hours of operation* (UTC) in hours and minutes, e.g., 0730-1800, 0000-2400, 0500-0230.

Column 15: *Remarks* indicated by symbols which are explained in the following pages.

EXPLANATION OF SYMBOLS USED IN THE "REMARKS" COLUMN

(COLUMN 15 OF THE PLAN AND COLUMN 11 OF APPENDIX 1 TO THE PLAN)

PART 1

Symbols adopted by the Regional Administrative LF/MF Broadcasting Conference, Geneva, 1975

1. (Not used).

2./.../... During the period of the year, indicated between the two groups of four digits separated by a slant stroke and each representing a date, the assignment is used as shown in the schedule in Column 14.

3. (No longer used in the Plan).

4./... (No longer used in the Plan).

5./... This assignment is to be coordinated with/...

6. French assignment for a station operating in the Federal Republic of Germany.

7. This assignment is used within the daytime limits shown in Figure 20 of Annex 2 to the Agreement.

8. The azimuth of maximum radiation may be modified by agreement with the Administration of Czechoslovakia; the latter requests that the gain should be restricted to −8 dB in the sector 320°-340°.

9. The Polish Administration will adopt additional technical measures to reduce the level of interference in the service area of the station Rhodos operating on 1 260 kHz so that the contribution of the Polish synchronized network to the usable field strength of that station does not exceed 85 dB (μV/m). Final coordination will be effected bilaterally between Greece and Poland.

10. (No longer used in the Plan).

11./... The entry of this assignment in the Plan has been requested by/...

12. (No longer used in the Plan).

13. (No longer used in the Plan).

14. (Not used).

15. Daytime hours of operation are based on the considerations in 3.3.4.3 of Annex 2 to the Agreement and shall not exceed 0900-1600 UTC in midwinter except by agreement between the administrations concerned.

16. (No longer used in the Plan).

17./... Discussions concerning this assignment did not result in an agreement with the Administrations of/...

18./... Discussions concerning this assignment did not result in a satisfactory agreement with the Administrations of/... However, the administrations concerned agreed to continue the discussions with a view to reaching a satisfactory agreement.

19. The audio-frequency bandwidth is fixed at 4.5 kHz using, in addition, a high degree of modulation compression (Case D in paragraph 4.4.2.1 of Chapter 4 of Annex 2) provided that the transmitters of other countries operating in adjacent channels which may produce interference also use the technique indicated in Case D.

20. The French Administration, in conjunction with the competent administration for Andorra, will seek practical means of installing a directional antenna at the Sud-Radio station to reduce the radiation from that station in the directions of Warsaw (sector between azimuths 45° and 55°) and Rabat (sector between azimuths 210° and 225°). The administrations concerned will study possible arrangements with a view to reaching agreement.

21. (Not used).

22. 1 467 kHz night-time;
594 kHz day-time.

23./... It was not possible for one reason or another to coordinate this assignment during the Conference with the Administrations of/...
However, the administrations concerned propose jointly to seek the basis for a satisfactory agreement.

24. Discussions about this assignment could not take place with the Administration of Israel because the administration which requested this assignment does not recognize that Administration. The provisions of Article 12 of the Radio Regulations shall therefore be applied to this assignment with respect to the assignments of the other administration.

25. This assignment is used in the day-time within the operational limits shown in the dotted lines in Figure 21 of Annex 2 to the Agreement.

26./... The hours of operation of this assignment are to be coordinated with the Administration of/... on the basis of Figure 20 of Annex 2 to the Agreement.

27. The Administrations of the Kingdom of Saudi Arabia and the Socialist Federal Republic of Yugoslavia have agreed on the following hours of operation of the transmitter Guriat (612 kHz):

1 April to 31 October from 0300-1600 UTC.
1 November to 31 March from 0500-1400 UTC.

The two Administrations are willing to cooperate in seeking a better solution meeting the needs of both parties in a satisfactory manner.

28. After negotiation the Administrations of Greece and Libya have agreed that when the Libyan stations are brought into use their contribution to interference in Greece shall not exceed 79 dB.

29. (No longer used in the Plan).

30. The Polish delegation has expressed a reservation concerning the undesirable interference caused to reception of the Polish synchronized network, operating on the frequency 1 206 kHz, on the territory of the People's Republic of Poland by the station München-Ismaning, and considers it necessary to effect further coordination on a bilateral basis.

31. This assignment will no longer be used within the day-time limits shown in Figure 20 of Annex 2 to the Agreement when station Mocimboa (MOZ) is brought into service on frequency 1 224 kHz.

32. The values indicated in Columns 7, 8, 9 and 10 are provisional and subject to agreement between the Administrations of Syria and the Federal Republic of Germany.

33. Discussions about this assignment could not take place because the Administrations of Algeria, Saudi Arabia, Egypt, the United Arab Emirates, Jordan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Qatar, Sudan, Tunisia, the Yemen A.R., the P.D.R. of Yemen, do not recognize the Administration which requested this assignment. The provisions of Article 12 of the Radio Regulations shall therefore apply to this assignment with respect to assignments of the foregoing Administrations.

PART 2

Additional symbols adopted by the I.F.R.B. as a consequence of the application of the procedure of Article 4 of the Regional Agreement, Geneva, 1975

41./ This assignment will not operate simultaneously with the assignment, on the same frequency, which is identified by the name of the station following the slant stroke.

42./ This entry is of a provisional nature in that it will cease operation as soon as the station, the name of which is indicated following the slant stroke, is brought into service.

43./ This assignment will cease operation on the date indicated by six digits following the slant stroke.

44./ The hours of operation of this assignment will be changed to 0500-1800 UTC as soon as the assignment of frequency 1 503 kHz to station Ulcinj is brought into operation.

45./ This assignment, forming part of a synchronized network, will not operate simultaneously with the assignment, or assignments forming part of another synchronized network, on the same frequency and pertaining to the same administration, which is or are identified by the symbol 46 or 47, as appropriate, in the "Remarks" column.

46. This assignment, forming part of a synchronized network, will cease operation as soon as the assignments of another synchronized network, on the same frequency and pertaining to the same administration, identified by the symbol 45 in the "Remarks" column, are brought into service.

47. This assignment will not operate simultaneously with the assignments, forming part of a synchronized network, on the same frequency and pertaining to the same administration, which are identified by the symbol 45 in the "Remarks" column.

48./.../.../... In the sector between ...° and ...°, the power is reduced to ...kW.

49./. This entry relates to a frequency assignment to a transportable low-power broadcasting station. This station may transmit from any fixed point situated within the territory enclosed by the polygon defined by a given number of transmitting locations, each of which is the subject of an entry similar to the present entry. The number of such sites is indicated after the slant stroke.

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Anexo 1 al Acuerdo Regional (Ginebra, 1975)

Plan de asignación de frecuencias a las estaciones de radiodifusión en las bandas de ondas hectométricas (excepto las estaciones que utilizan los canales de baja potencia) en las Regiones 1 y 3 y en las bandas de ondas kilométricas en la Región 1

Ginebra, 1975

Segunda edición, noviembre de 1981
(Puntos 3.5.5 y 3.5.6 del Artículo 4 del
Acuerdo Regional, Ginebra, 1975)

INFORMACIÓN QUE FIGURA EN LAS COLUMNAS DEL PLAN

Columna 1: *Frecuencia asignada del canal*, en kHz.
Número del canal; el número del canal figura entre paréntesis.

Columna 2: *Nombre de la estación transmisora.* El símbolo S que figura a la izquierda de la línea de trazos indica que la estación forma parte de una red sincronizada cuyas demás estaciones llevan el mismo símbolo (véase el epígrafe Definiciones, Capítulo 1 del Anexo 2 al Acuerdo Regional).

Columna 3: *Símbolo del país* o área geográfica en la que está ubicada la estación (véase el Cuadro N.º 1 del Prefacio a la Lista Internacional de Frecuencias).

Columna 4: *Coordenadas geográficas de la estación transmisora*, en grados y minutos.

Columna 5: *Anchura de banda necesaria*, en kHz; el valor en kHz va precedido por el símbolo A, B, C o D que indica la relación de protección del canal adyacente que se empleará para calcular la intensidad de campo utilizable. En el punto 4.4.2 del Anexo 2 al Acuerdo figuran los diversos casos que corresponden a estos símbolos.

Columna 6: *Potencia de la portadora*, en kW.

Columna 7: *Radiación máxima* en dB con relación a una f.c.m. de 300 V o con relación a una p.r.a.v. de 1 kW. Esta radiación viene determinada partiendo de la potencia nominal del transmisor y de la ganancia teórica de la antena, sin tener en cuenta las diversas pérdidas.

Columna 8: *Acimut de radiación máxima*, en grados a partir del Norte verdadero (en el sentido del movimiento de las agujas del reloj).

Columna 9: *Acimutes que definen el sector con radiación limitada*, en grados, a partir del Norte verdadero (en el sentido del movimiento de las agujas del reloj).

Columna 10: *Radiación máxima admitida en el sector* en dB, con relación a una f.c.m. de 300 V o con relación a una p.r.a.v. de 1 kW; radiación determinada a partir de la potencia nominal del transmisor y de la ganancia teórica de la antena sin tener en cuenta las diversas pérdidas.

Columna 11: *Tipo de antena.* El símbolo A indica una antena vertical simple alimentada por la base. El símbolo B indica cualquier otro tipo de antena cuya descripción figura en el Apéndice 2 al Plan.

Columna 12: *Altura de la antena* en metros solamente si se trata de una antena vertical simple.

Columna 13: *Conductividad del suelo.* Los números 1 a 9 que aparecen en esta columna se refieren a las figuras 1 a 9 del Capítulo 2 del Anexo 2 al Acuerdo Regional (página 341 de las Actas Finales de la Conferencia). El número 1 indica la figura 1, el número 2 indica la figura 2, etc.

Columna 14: *Horario de funcionamiento* (UTC) en horas y minutos, por ejemplo, 0730-1800, 0000-2400, 0500-0230.

Columna 15: *Observaciones* (para el significado de los símbolos véanse las páginas siguientes).

SIGNIFICADO DE LOS SÍMBOLOS UTILIZADOS EN LA COLUMNA «OBSERVACIONES»

(COLUMNA 15 DEL PLAN Y COLUMNA 11 DEL APÉNDICE 1 AL PLAN)

PARTE 1

Símbolos adoptados por la Conferencia Administrativa Regional de Radiodifusión por ondas kilométricas y hectométricas, Ginebra, 1975

1. (No utilizado).

2./.../... Durante el periodo del año indicado entre los dos grupos de cuatro cifras separados por un trazo oblicuo, cada uno de los cuales representa una fecha, la asignación se utiliza según el horario que figura en la columna 14.

3. (No utilizado).

4./... (No utilizado).

5./... Esta asignación deberá coordinarse con/...

6. Asignación francesa para una estación que funciona en la República Federal de Alemania.

7. Esta asignación se utiliza de día de acuerdo con los limites de horario de la Figura 20 del Anexo 2 al presente Acuerdo.

8. El acimut de radiación máxima puede ser modificado previo acuerdo con la Administración de Checoeslovaquia; esta última pide que en el sector 320° à 340° la ganancia se limite a -8 dB.

9. La Administración de Polonia adoptará medidas técnicas suplementarias para reducir el nivel de interferencia en la zona de servicio de la estación de Rhodos, que funciona en 1 260 kHz, a fin de que la contribución de la red sincronizada polaca en el campo utilizable de esta estación no exceda 85 dB (μV/m).
La coordinación definitiva se efectuará bilateralmente entre Grecia y Polonia .

10. (No utilizado).

11./... La inscripción de esta asignación en el Plan ha sido solicitada por/...

12. (No utilizado).

13. (No utilizado).

14. (No utilizado).

15. El horario de día ha sido determinado de acuerdo con las consideraciones del punto 3.3.4.3 del Anexo 2 al Acuerdo. En invierno el horario de funcionamiento no excederá de 0900-1600 UTC salvo acuerdo en contrario entre las administraciones interesadas.

16. (No utilizado).

17./... Las negociaciones relativas a esta asignación no han permitido llegar a un acuerdo con las Administraciones de/...

18./... Las negociaciones relativas a esta asignación no han permitido llegar a un acuerdo satisfactorio con las Administraciones de/...
Sin embargo, las administraciones interesadas han convenido en proseguir las negociaciones con objeto de llegar a un acuerdo satisfactorio.

19. La anchura de banda en audiofrecuencia se fija en 4,5 kHz utilizando además una fuerte compresión de la modulación (caso D del apartado 4.4.2.1 del Capítulo 4 del Anexo 2) a condición de que los transmisores de otros países que funcionan en canales adyacentes y que puedan producir interferencias empleen el mismo método del caso D.

20. La Administración francesa estudiará con la Administración competente de Andorra la posibilidad de instalar en la estación de Sud-Radio una antena directiva que permita reducir la radiación de esa estación en dirección de Varsovia (sector comprendido entre los acimutes 45° y 55°) y de Rabat (sector comprendido entre los acimutes 210° y 225°). Estas disposiciones serán objeto de estudios entre las administraciones interesadas, con miras a la coordinación deseada.

21. (No utilizado).

22. 1 467 kHz, utilización de noche;
594 kHz, utilización de día.

23./... Por una u otra razón, esta asignación no ha podido coordinarse en el curso de la Conferencia con las administraciones de/...
Sin embargo, las administraciones interesadas se proponen establecer conjuntamente las bases para un acuerdo satisfactorio.

24. No ha sido posible celebrar negociaciones sobre esta asignación con la Administración de Israel, debido a que el país solicitante de la asignación no reconoce a esta administración. Por consiguiente, se aplicarán a la presente asignación las disposiciones del Artículo 12 del Reglamento de Radiocomunicaciones, con respecto a las asignaciones de la otra administración.

25. Esta asignación se utiliza durante el periodo diurno comprendido dentro de los límites de funcionamiento indicados por las líneas de trazo discontinuo de la Figura 21 del Anexo 2 al Acuerdo.

26./... El horario de funcionamiento de esta asignación habrá de coordinarse con la Administración de/... sobre la base de la Figura 20 del Anexo 2 al Acuerdo.

27. Las Administraciones del Reino de Arabia Saudita y de la República Socialista Federativa de Yugoeslavia han llegado a un acuerdo sobre el horario de funcionamiento siguiente del transmisor de Guriat (612 kHz):
1.° de abril-31 de octubre: de 0300 à 1600 UTC.
1.° de noviembre-31 de marzo: de 0500 à 1400 UTC.
Ambas Administraciones se declaran dispuestas a buscar de común acuerdo una solución mejor que la indicada, que responda satisfactoriamente a las necesidades de ambas partes.

28. Tras las negociaciones efectuadas, las Administraciones de Grecia y Libia han acordado que, cuando las estaciones libias entren en servicio, su contribución a la interferencia en Grecia no será superior a 79 dB.

29. (No utilizado).

30. La Delegación polaca formula una reserva relativa a la interferencia perjudicial que causa la estación München-Ismaning en el territorio de la República Popular de Polonia en la recepción de la red sincronizada polaca que funciona en la frecuencia de 1 206 kHz, y considera necesario proseguir la coordinación sobre una base bilateral.

31. Esta asignación dejará de utilizarse de día de acuerdo con los límites de horario de la Figura 20 del Anexo 2 al presente Acuerdo, cuando se ponga en servicio la estación de Mocimboa (MOZ) en la frecuencia de 1 224 kHz.

32. Los valores indicados en las columnas 7, 8, 9 y 10 son provisionales y están subordinados a un acuerdo entre las Administraciones de Siria y de la República Federal de Alemania.

33. No ha sido posible celebrar negociaciones sobre esta asignación debido a que las Administraciones de Argelia, Arabia Saudita, Egipto, Emiratos Árabes Unidos, Jordania, Kuwait, Líbano, Libia, Marruecos, Mauritania, Qatar, Sudán, Túnez, Yemen (R. A.) y Yemen (R.D.P. del) no reconocen a la Administración solicitante de dicha asignación. Por consiguiente, se aplicarán las disposiciones del Artículo 12 del Reglamento de Radiocomunicaciones a la asignación en cuestión con respecto a las asignaciones de las citadas Administraciones.

PARTE 2

Símbolos adicionales adoptados por la I.F.R.B. a consecuencia de la aplicación de procedimiento del artículo 4 del Acuerdo Regional, Ginebra, 1975

41./ Esta asignación no se utilizará simultáneamente con la asignación, en la misma frecuencia, que se designa por el nombre de la estación que sigue al trazo oblicuo.

42./ Esta inscripción es provisional ya que cesará tan pronto como entre en servicio la estación cuyo nombre si indica después del trazo oblicuo.

43./ Esta asignación cesará en la fecha indicada por los seis dígitos que siguen al trazo oblicuo.

44./ El horario de funcionamiento de esta asignación pasará a ser 0500-1800 UTC tan pronto como entre en funcionamiento la asignación de la frecuencia 1 503 kHz a la estación Ulcinj.

45./ Esta asignación, que forma parte de una red sincronizada, no se utilizará simultáneamente con la asignación, o asignaciones que forman parte de otra red sincronizada, en la misma frecuencia y pertenecientes a la misma administración, que se designan por el símbolo 46 ó 47, según el caso, en la columna «Observaciones».

46. Esta asignación, que forma parte de una red sincronizada, cesará de utilizarse tan pronto como entren en servicio las asignaciones de otra red sincronizada, en la misma frecuencia y pertenecientes a la misma administración, designadas por el símbolo 45 en la columna «Observaciones».

47. Esta asignación no se utilizará simultáneamente con las asignaciones, que forman parte de una red sincronizada, en la misma frecuencia y pertenecientes a la misma administración, que se designan por el símbolo 45 en la columna «Observaciones».

48./.../.../... En el sector comprendido entre ...° y ...°, la potencia se reduce a ... kW.

49./. Esta inscripción se refiere a una asignación de frecuencia a una estación transportable de radiodifusión de baja potencia. Esta estación puede transmitir desde cualquier punto fijo en el interior del territorio delimitado por un polígono definido por un determinado número de ubicaciones de transmisión, cada una de las cuales es objeto de una inscripción similar a la presente. El número de estas ubicaciones se indica después del trazo oblicuo.

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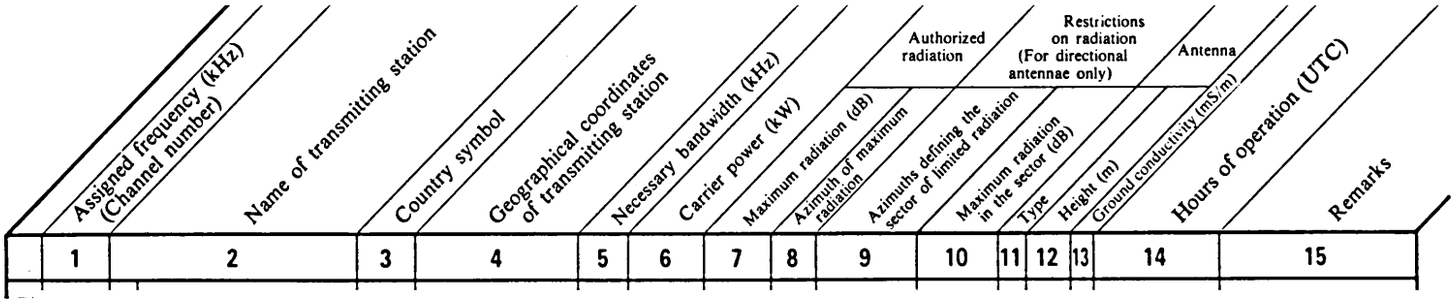
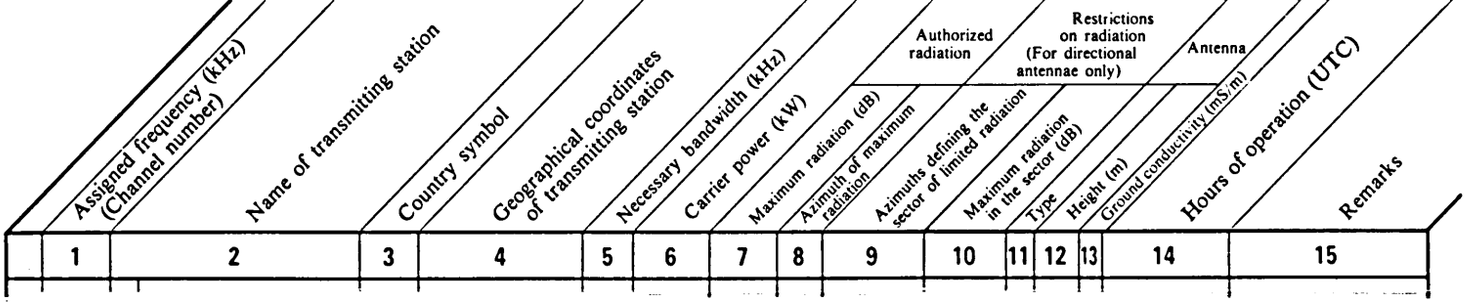


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	155		DONEBACH	D	09E11 49N34	D 9	500	29.0	20	90—130	24.0	B		4	0400—1800	
2	(1)		DONEBACH	D	09E11 49N34	D 9	500	29.0	200			B				
3			DONEBACH	D	09E11 49N34	D 9	250	26.0	235	90—130	14.0	B		4	1800—0400	
4			DONEBACH	D	09E11 49N34	D 9	250	26.0	355			B				
5			TROMSOE CITY	NOR	18E52 69N41	D 9	10	10.0				A	120	4	0000—2400	42/TROMS VANNA
6			TROMSOE VANNA	NOR	19E54 70N11	D 9	1200	31.2				A	350	3	0000—2400	23/ROU
7			TROMSOE VANNA	NOR	19E54 70N11	D 9	1200									41/TROMSOECITY
8			BRASOV 1	ROU	25E36 45N43	A20	1200	31.2				A	250	5	0000—2400	23/NOR
9		S	ENGELSK	URS	46E15 51N30	C 9	150	25.2	60	230—260	17.0	B			0000—2400	
10			KHABAROVSK	URS	135E10 48N33	C 9	1000	30.4				A	257	4	0000—2400	
11		S	KOLPACHEVO	URS	82E59 58N18	C 9	150	22.2				A	300	4	0000—2400	

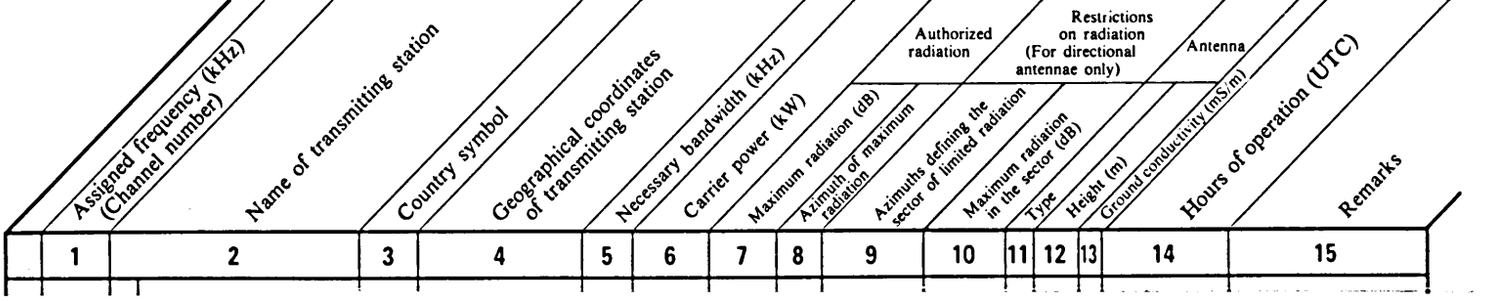
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

164 KHZ (2)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	164		EL QUSIYA	EGY	30E44 27N29	D 9	2000	37.0	5	310—327	20.0	B		4	0500—1500	
2	(2)		EL QUSIYA	EGY	30E44 27N29	D 9	2000	37.0		50— 70	20.0	B				
3			EL QUSIYA	EGY	30E44 27N29	D 9	1000	34.0	5	310—327	17.0	B		4	1500—0500	
4			EL QUSIYA	EGY	30E44 27N29	D 9	1000	34.0		50— 70	17.0	B				
5			ALLOUIS	F	02E12 47N10	D 9	2000	35.0	180			B		4	0000—2400	
6		S	SAIN SHANDA	MNG	110E05 44N50	A18	75	19.2				A	200	4	2200—0800	
7		S	TSETSERLIG	MNG	101E10 47N30	A18	50	17.4				A	200	5	2200—0800	
8			ARDAHAN	TUR	42E42 41N07	D 9	200	26.0	215	10— 90	8.0	B		4	0200—2300	23/EGY F URS
9			ARDAHAN	TUR	42E42 41N07	D 9	200	26.0		105—115	16.0	B				
10		S	ACHKHABAD	URS	58E23 37N57	C 9	100	20.4				A	300	4	0000—2400	
11			BAIKIT	URS	96E10 61N55	A18	50	17.4				A	300	4	0000—2400	
12		S	TACHKENT	URS	69E15 41N19	A16	150	22.2				A	235	4	0000—2400	



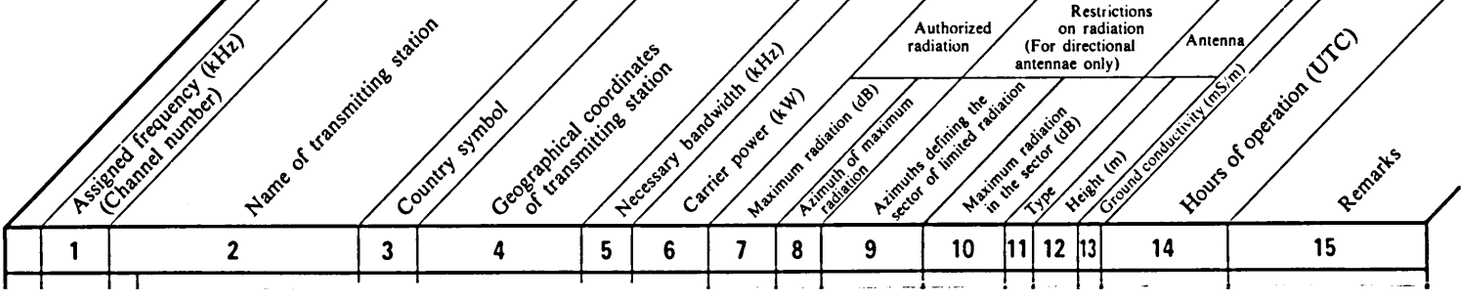
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	173	S	MINSK	BLR	27E34 53N56	A16	1000	30.4				A	257	4	0000—2400	
2	(3)		LOPIK	HOL	05E03 52N01	D 9	500	30.0	290	20— 20	27.0	B		4	0000—2400	
3			LOPIK	HOL	05E03 52N01	D 9	500	30.0		30— 30	24.0	B				
4			LOPIK	HOL	05E03 52N01	D 9	500	30.0		40— 40	21.0	B				
5			LOPIK	HOL	05E03 52N01	D 9	500	30.0		50— 50	18.0	B				
6			LOPIK	HOL	05E03 52N01	D 9	500	30.0		60— 80	14.0	B				
7			LOPIK	HOL	05E03 52N01	D 9	500	30.0		90—110	17.0	B				
8			LOPIK	HOL	05E03 52N01	D 9	500	30.0		120—210	22.0	B				
9			NADOR	MRC	02W55 34N58	C 9	1200	34.8	180	300— 60	26.8	B		4	0500—0300	
10			NADOR	MRC	02W55 34N58	C 9	1200	34.8		310— 50	22.8	B				
11			NADOR	MRC	02W55 34N58	C 9	1200	34.8		290— 70	27.8	B				
12		S	LVOV	UKR	24E00 49N50	A16	500	27.4				A	257	4	0000—2400	
13		S	BELEBEI	URS	54E07 54N05	A16	300	25.2				A	257	4	0000—2400	
14		S	BLAGOVECHTCHEN	URS	127E33 50N16	C 9	50	17.4				A	257	4	0000—2400	
15		S	IAKUTSK	URS	129E42 61N51	C 9	500	27.4				A	257	5	0000—2400	
16		S	KALININGRAD	URS	20E30 54N45	A16	1000	30.4				A	257	4	0000—2400	
17		S	KANDALAKCHA	URS	32E06 67N08	A18	150	22.2				A	257	4	0000—2400	
18		S	KARABOGAZ GOL	URS	52E56 41N05	C 9	15	12.2				A	257	4	0000—2400	
19		S	MAIKOP	URS	40E08 44N36	A16	1000	30.4				A	257	4	0000—2400	
20		S	MOSKVA	URS	37E38 55N45	A16	500	27.4				A	220	4	0000—2400	
21		S	SYKTYVKAR	URS	50E31 61N41	A16	300	25.2				A	257	4	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	182		SAARLOUIS	D	06E41 49N17	D 9	2000	38.0	222	30— 60	13.0	B		4	0000—2400	6
2	(4)		ORANIENBURG	DDR	13E24 52N48	D 9	750	29.2				A	350	4	0000—2400	
3			RAUFARHOEFN	ISL	15W57 66N30	A20	500	29.4	255	50— 70	24.4	B		5	0700—0200	
4			KIRUNA	S	20E55 67N38	D 9	600	30.0	175	270—290	22.0	B		6	0000—2400	
5			ANKARA	TUR	32E25 39N45	D 9	1200	31.2				A	250	4	0000—2400	
6		S	AIAGUZ	URS	79E59 47N50	A18	50	17.4				A	300	4	0000—1000	
7		S	AKTIUBINSK	URS	57E13 50N17	A16	150	22.2				A	300	4	0100—1100	
8		S	ALMA ATA	URS	76E58 43N07	C10	250	24.4				A	257	4	0000—2400	
9		S	BARNAUL	URS	83E48 53N21	C 9	50	17.4				A	257	4	0000—2400	
10		S	DJAMBUL	URS	71E22 42N55	A18	50	17.4				A	300	4	0000—1000	
11		S	KAMENSKOE	URS	165E10 62N30	A18	50	17.4				A	300	4	0000—2400	
12			NEMBAITO	URS	80E27 67N00	A18	50	17.4				A	300	4	0000—2400	
13		S	PETROPAVLO KAM	URS	158E40 53N00	C10	150	22.2				A	257	4	0000—2400	
14			TCHITA	URS	113E20 52N02	A16	150	22.2				A	257	4	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

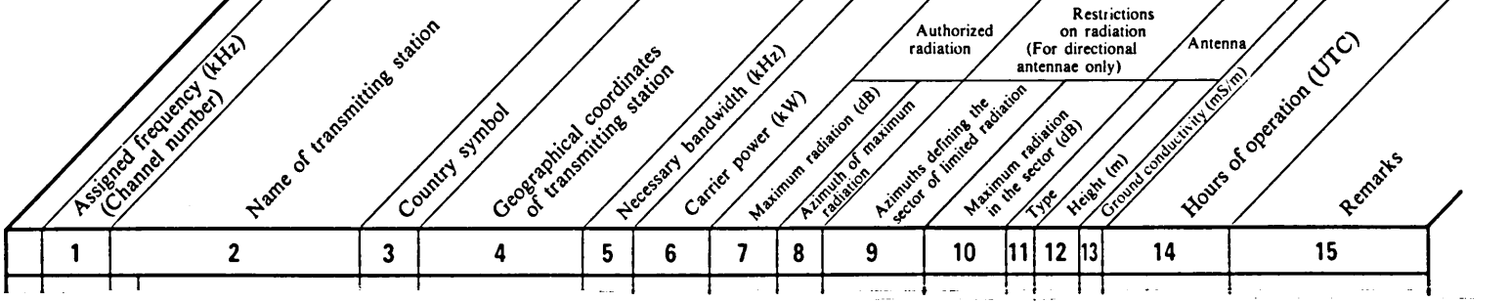
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	191	MADRID	E	02W30 41N00	D 9	1000	33.0	255	70—110	11.0	B		4	0000—2400	19
2	(5)	MADRID	E	02W30 41N00	D 9	1000	33.0		20— 40	20.0	B				
3		S SEVERO	I	15E23 41N40	D 9	600	32.8	160	80	21.8	B		4	0000—2400	
4		S SEVERO	I	15E23 41N40	D 9	600	32.8		260	13.8	B				
5		S SEVERO	I	15E23 41N40	D 9	600	32.8		270—290	10.8	B				
6		S SEVERO	I	15E23 41N40	D 9	600	32.8		345— 20	11.8	B				
7		GOTLAND	S	18E42 57N55	D 9	600	30.0	295	100—130	23.0	B		4	0000—2400	41/MOTALA
8		MOTALA	S	14E59 58N26	D 9	300	27.0				A	200	5	0000—2400	42/GOTLAND
9		BIROBIDJAN	URS	133E00 49N16	A16	1000	30.4				A	257	4	0000—2400	
10		GORNO ALTAISK	URS	85E52 51N57	A16	50	17.4				A	257	4	0000—2400	
11		TBILISI	URS	44E30 41N40	A18	500	31.0	140	310—340	22.0	B		4	0000—2400	



200 KHZ (6)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	200		EL GOLEA	ALG	02E52 30N34	C 9	1000	37.0	180	320– 30	17.0	B		5	0000–2400	
2	(6)		EL QUSIYA	EGY	30E44 27N29	D 9	500	32.0	170	290– 70	25.0	B		4	0400–2400	
3		S	BURGHEAD	G	03W28 57N42	C10	50	17.4				A	152	4	0000–2400	
4		S	DROITWICH	G	02W06 52N18	C10	400	26.4				A	213	3	0000–2400	
5		S	WESTERGLEN	G	03W50 55N58	C10	50	17.4				A	152	4	0000–2400	
6			WARSZAWA 3	POL	20E53 52N04	C 9	200	23.4				A	335	4	0900–1600	15
7			ETIMESGUT	TUR	32E40 39N56	D 9	200	23.4				A	250	4	0200–2300	
8			ACHKHABAD	URS	58E23 37N57	C 9	75	19.2				A	257	4	0000–2400	
9			ALEKSANDROV SA	URS	142E18 50N58	A18	50	17.4				A	257	2	0200–2200	
10			FRUNZE	URS	74E37 42N54	A16	150	22.2				A	257	4	0000–1000	
11		S	KAZAN	URS	49E08 55N47	C 9	50	17.4				A	257	4	0000–2400	
12			KORF	URS	165E51 60N19	A18	50	17.4				A	300	5	0000–2400	
13		S	LENINGRAD	URS	30E00 59N44	A16	150	22.2				A	220	4	0300–1300	
14		S	MOSKVA	URS	37E08 55N54	A16	100	20.4				A	257	4	0300–1300	
15			ULAN UDE	URS	107E38 51N50	C 9	250	24.4				A	257	4	0000–2400	

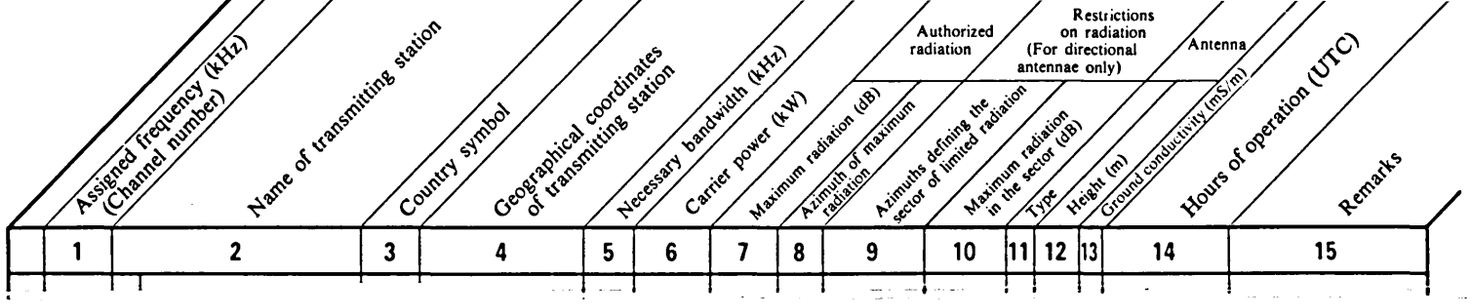
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	209		PASSAU	D	12E58 48N41	D 9	500	27.4				A	200	4	0400—1800	
2	(7)		PASSAU	D	12E58 48N41	D 9	250	27.0	320	115—160	21.0	B		4	1800—0400	
3			PASSAU	D	12E58 48N41	D 9	250	27.0	320	160—230	20.0	B				
4			PASSAU	D	12E58 48N41	D 9	250	27.0		72— 88	4.0	B				
5			CALTANISSETTA	I	14E05 37N30	D 9	60	18.2				A	284	4	0000—2400	
6		S	EIDAR	ISL	14W26 65N19	A20	50	17.4				A	100	6	0700—0200	
7		S	FLOINN	ISL	21W00 63N52	A20	500	27.4				A	300	5	0700—0200	
8		S	DALANTSZADAGAD	MNG	104E30 43N38	A18	150	22.2				A	257	4	2200—0800	
9		S	MUREN	MNG	100E10 49N28	A18	150	22.2				A	257	5	2200—0800	
10		S	TCHOIBOLSAN	MNG	114E30 48N05	A18	75	19.2				A	257	4	2200—0800	
11		S	ULGEI	MNG	89E48 49N00	A18	60	18.2				A	350	5	2200—1500	
12			AZILAL	MRC	06W33 31N54	C 9	800	29.4				A	300	4	0500—0300	
13			KIEV	UKR	30E38 50N27	A16	500	27.4				A	257	4	0000—2400	
14		S	BLAGOVECHTCHEN	URS	127E33 50N16	A16	30	15.2				A	220	4	0000—2400	
15		S	SKOVORODINO	URS	123E58 53N58	A16	30	15.2				A	257	4	0000—2400	
16			TACHKENT	URS	69E15 41N19	C 9	50	17.4				A	257	4	0000—2400	



218 KHZ (8)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	218		MONTE CARLO	MCO	07E25 43N47	D 9	1400	35.5	309	345— 15	25.5	B		6	0000—2400	
2	(8)		OSLO BASTOEY	NOR	10E32 59N23	D 9	1200	31.2				A	350	4	0000—2400	41/OSLOKLOEFTA
3			OSLO KLOEFTA	NOR	11E10 60N03	D 9	200	23.2				A	230	4	0000—2400	42/OSLOBASTOEY
4			BAKU	URS	49E45 40N24	C10	500	27.4				A	257	4	0000—2400	
5		S	ENISEISK	URS	92E05 58N27	A16	300	25.2				A	257	4	0000—2400	
6			KHABAROVSK	URS	135E15 48N33	C 9	100	20.4				A	257	4	0000—2400	
7		S	NOVOSIBIRSK	URS	82E58 55N04	C 9	50	17.4				A	257	4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	227	S	BARCELONA	E	02E15 41N40	D 9	800	34.0	230	30— 50	12.0	B		4	0000—2400	19
2	(9)	S	BILBAO	E	02W45 43N25	D 9	400	30.0	230	40— 60	7.0	B		5	0000—2400	19
3		S	LINARES	E	03W40 38N00	D 9	400	30.0	210	30— 50	15.0	B		4	0000—2400	19
4		S	LUGO	E	07W45 43N02	D 9	200	27.0	220	40— 60	11.0	B		5	0000—2400	19
5			ABIS	EGY	30E05 31N10	D 9	200	27.0	140	290—350	12.0	B		4	0400—2400	
6			WESTERGLEN	G	03W50 55N58	C10	50	17.4				A	152	4	0000—2400	
7		S	ALTAI	MNG	96E10 46N30	A18	150	22.2				A	257	5	2200—1500	
8		S	ULAN BATOR	MNG	107E00 47N55	A18	150	22.2				A	257	4	2200—1500	
9			WARSZAWA 1	POL	19E48 52N22	C 9	2000	33.4				A	646	4	0000—2400	
10			VAN	TUR	43E22 38N30	D 9	600	31.0	265	340— 45	16.0	B		4	0000—2400	23/EGY POL URS
11			LENINABAD	URS	69E37 40N16	C 9	50	17.4				A	257	4	0000—2400	
12			NIJNII TAGHIL	URS	60E00 57N55	A16	50	17.4				A	257	4	0000—2400	

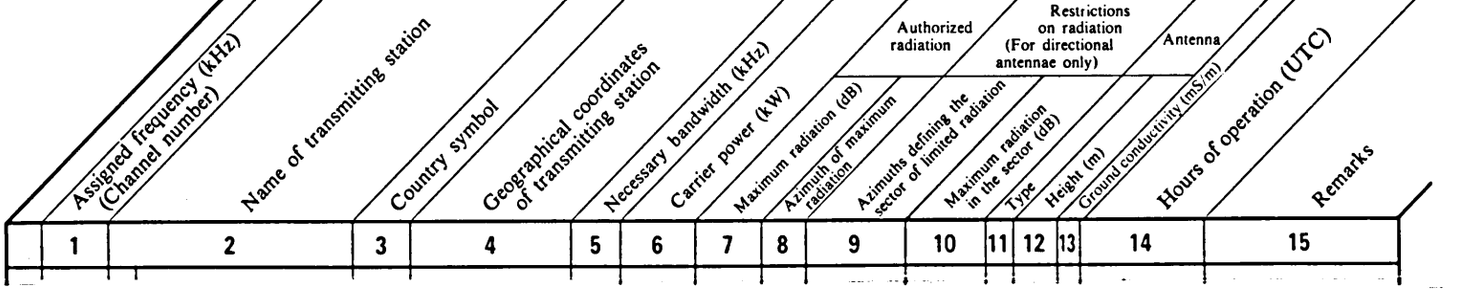


236 KHZ (10)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	236		JEFREN	LBY	12E31 32N03	D 9	1000	33.0	135	340— 70	22.0	B		4	0400—2000	
2	(10)		JUNGLINSTER	LUX	06E19 49N40	D 9	2000	38.0	227	7— 87	13.0	B		4	0000—2400	
3		S	ARKHANGHELSK	URS	40E32 64N33	A16	150	22.2				A	257	4	0000—2400	
4		S	EREVAN	URS	44E30 40N11	A16	500	27.4				A	257	4	0000—2400	
5			IRKUTSK	URS	104E20 52N17	A16	500	27.4				A	257	4	2200—0800	
6		S	KICHINIOV	URS	28E52 47N00	C 9	1000	30.4				A	257	4	0000—2400	
7		S	LENINGRAD	URS	30E21 59N59	A16	1000	30.4				A	257	4	0000—2400	
8			MAGADAN	URS	151E50 59N40	C10	1000	30.4				A	257	4	0000—2400	
9		S	MARY	URS	61E50 37N35	A18	500	27.4				A	257	4	0000—2400	
10		S	TOBOLSK	URS	68E16 58N16	C 9	50	17.4				A	257	4	0000—2400	
11		S	ULIANOVSK	URS	48E20 54N19	C 9	1200	31.2				A	257	4	0000—2400	

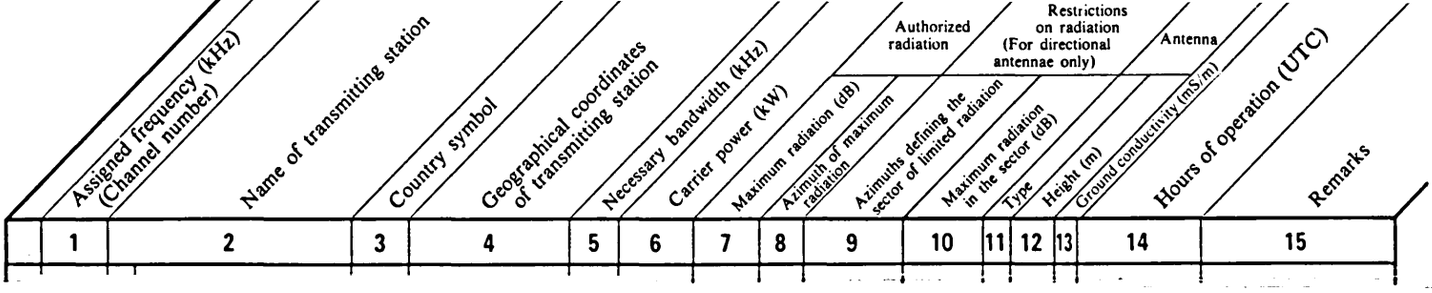
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	245		KALUNDBORG	DNK	11E04 55N40	D 9	300	25.2				A		4	0000—2400	
2	(11)		TUSCANIA	I	11E53 42N26	D 9	300	28.8	185	80— 90	18.8	B		4	0000—2400	
3			TUSCANIA	I	11E53 42N26	D 9	300	28.8		330— 30	8.8	B				
4			ERZURUM	TUR	41E07 39N59	D 9	200	23.4				A	185	4	0200—2300	
5		S	KARAGANDA	URS	73E05 49N50	A18	100	20.4				A	257	4	0000—1000	
6		S	MUINAK	URS	59E00 43N41	A18	150	22.2				A	257	4	0100—1100	
7		S	SURGUT	URS	73E30 61N15	A18	500	27.4				A	257	4	0000—2400	
8		S	TALDY KURGAN	URS	78E00 45N34	A16	500	27.4				A	257	4	0000—2400	
9			VLADIVOSTOK	URS	131E53 43N07	A16	1000	30.4				A	257	4	0000—2400	

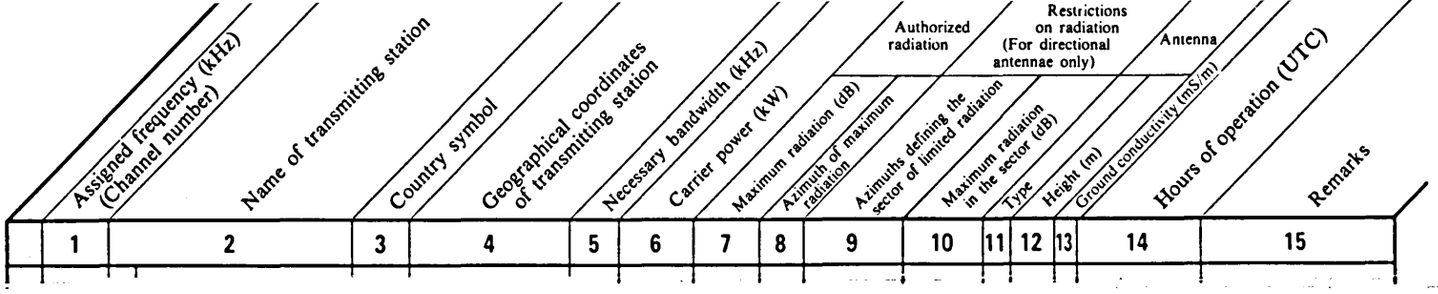


254 KHZ (12)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	254		TIPAZA	ALG	02E27 36N35	D 9	1500	32.2				A	354	3	0600—1800	
2	(12)		TIPAZA	ALG	02E27 36N35	D 9	750	29.2				A	354	3	1800—0600	
3		S	INARI	FNL	26E58 68N55	D 9	300	25.2				A	300	6	0000—2400	
4		S	LAHTI	FNL	25E39 60N59	D 9	200	23.1				A	150	5	0000—2400	46
5		S	OULU 1	FNL	25E32 65N00	D 9	300	25.2				A	400	5	0000—2400	
6		S	TURKU 1	FNL	22E35 60N04	D 9	1500	31.8	316	130—140	25.8	B		5	0000—2400	45
7		S	TURKU 1	FNL	22E35 60N04	D 9	1500	31.8		210—230	27.8	B				
8		S	TURKU 1	FNL	22E35 60N04	D 9	1500	31.8		250—270	28.8	B				
9			TULLAMORE 2	IRL	07W22 53N17	C 9	500	27.4				A	300	4	0600—1800	7
10			TULLAMORE 2	IRL	07W22 53N17	C 9	500	29.0	290	40— 70	20.0	B		4	1800—0600	
11			TULLAMORE 2	IRL	07W22 53N17	C 9	500	29.0		140—190	20.0	B				
12			SARAKEB 2	SYR	36E49 35N50	A20	500	32.4	210			B		4	0300—2400	
13		S	DUCHANBE	URS	68E50 38N40	C10	300	25.2				A	220	4	0000—2400	
14			EREVAN	URS	44E30 40N11	C 9	150	22.2				A	220	4	0000—2400	
15			KASSAN	URS	48E48 55N47	A16	150	22.2				A	220	4	0200—1200	
16		S	KRASNOGORSK	URS	141E54 48N26	C 9	50	17.4				A	220	4	0000—2400	
17		S	KREST MAIOR	URS	144E55 67N40	A18	50	17.4				A	220	5	0000—2400	
18		S	NAKKANNO	URS	112E00 61N05	A18	50	17.4				A	220	5	0000—2400	
19		S	NIJNE KOLYMSK	URS	160E50 68N25	A18	50	17.4				A	220	5	0000—2400	
20		S	TCHIMKENT	URS	69E37 42N18	C 9	50	17.4				A	220	4	0000—2400	
21			ULAGAN	URS	88E00 50N38	C 9	50	17.4				A	220	4	0000—2400	

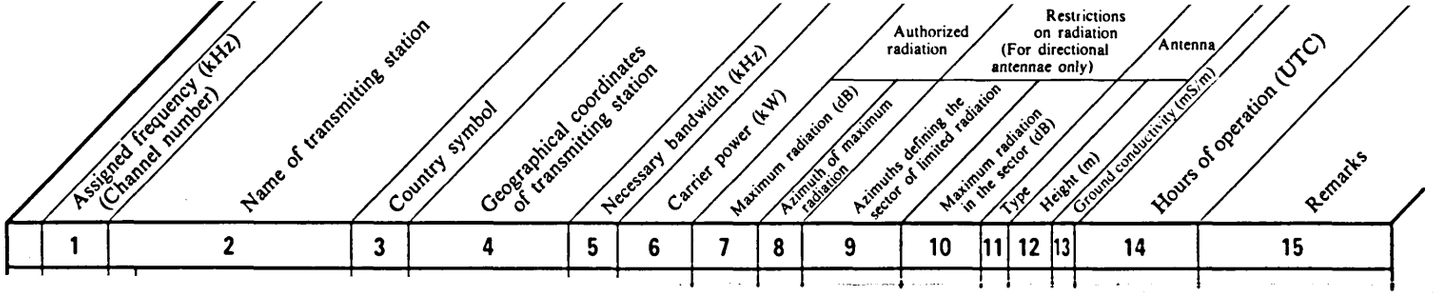


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	263		PLOVDIV	BUL	24E41 42N04	A18	500	27.4				A	500	4	0000—2400	
2	(13)		BURG	DDR	11E54 52N17	D 9	200	23.4				A	355	4	0000—2400	
3		S	GURIEV	URS	51E55 47N03	A18	150	22.2				A	220	4	0100—1100	
4			IRKUTSK	URS	104E18 52N18	A16	1000	30.4				A	220	4	0000—2400	
5		S	KARAGANDA	URS	73E05 49N50	A16	150	22.2				A	257	4	0000—1000	
6		S	MOSKVA	URS	37E38 55N45	A16	2000	33.4				A	257	4	0000—2400	
7		S	TIUMEN	URS	65E30 57N02	A18	150	22.2				A	220	4	0000—2400	
8		S	VORKUTA	URS	63E12 67N16	A18	50	17.4				A	220	4	0000—2400	



272 KHZ (14)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	272		CESKOSLOVENSKO	TCH	17E30 49N10	C 9	1500	32.2				A	257	4	0000—2400	
2	(14)		BIROBIDJAN	URS	133E00 49N16	A16	30	15.2				A	220	4	0000—2400	
3		S	FT CHEVTCHENKO	URS	50E18 44N30	A18	150	22.2				A	220	4	0100—1100	
4			NOVOSIBIRSK	URS	82E58 55N04	C10	150	22.2				A	220	4	0000—2400	
5			SARANSK	URS	45E06 54N12	C 9	50	17.4				A	257	4	0000—2400	
6		S	TCHARDJOU	URS	63E35 39N02	C 9	500	27.4				A	220	4	0100—1100	



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1	281		MINSK	BLR	27E34 53N54	A16	500	27.4				A	220	4	0000—2400	
2	(15)		TEL AVIV 1	ISR	34E50 31N50	D 9	500	31.0		270—350	21.0	B		3	0600—1800	33
3			TEL AVIV 1	ISR	34E50 31N50	D 9	100	24.0		270—350	14.0	B		3	1800—0600	33
4			TUNIS DJEDEIDA	TUN	09E50 36N50	D 9	1200	33.8	200	20— 30	16.8	B		4	0000—2400	24
5			TUNIS DJEDEIDA	TUN	09E50 36N50	D 9	1200	33.8		30— 90	10.0	B				
6			ACHKHABAD	URS	58E23 37N57	A16	150	22.2				A	220	4	0000—2400	
7			IUJNSAKHALINSK	URS	143E00 47N00	A18	150	22.2				A	257	2	0000—2400	
8		S	PETROPAVLO KAM	URS	158E40 53N00	A18	25	14.4				A	220	4	0000—2400	
9			TCHITA	URS	113E29 52N03	C 9	150	22.2				A	220	5	0000—2400	
10		S	UST BELAIA	URS	173E15 65N31	A18	50	17.4				A	220	5	0000—2400	

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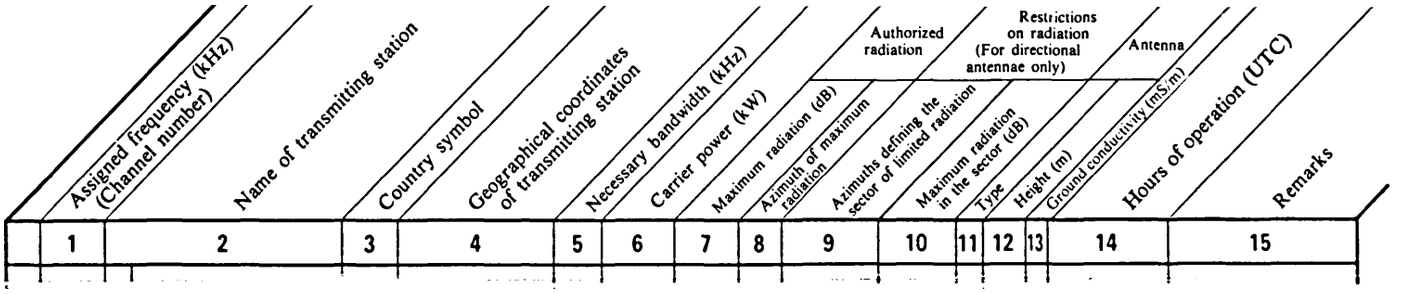

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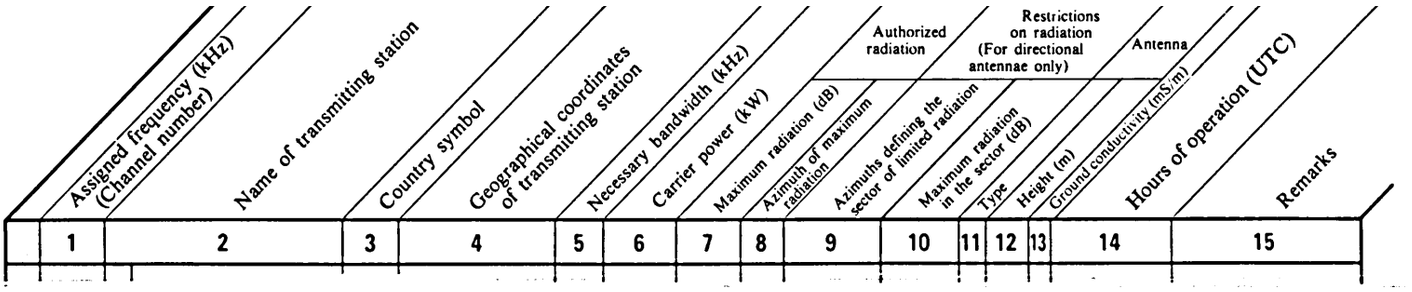
1	531		AIN BEIDA	ALG	07E19 35N49	D 9	600	29.9				A	278	4	0600—1800	24
2	(1)		AIN BEIDA	ALG	07E19 35N49	D 9	300	26.9				A	278	4	1800—0600	24
3			GIZAN	ARS	42E31 16N52	C 9	1000	35.0	150	250— 50	15.0	B		4	0000—2400	24
4			ADELAIDE SA	AUS	138E34 34S50	A20	0.5	—3.0				A	37	2	0800—1400	
5		S	DALWALLINU WA	AUS	116E36 30S17	A20	10	10.6				A	213	2	2100—1600	
6			INNISFAIL QLD	AUS	146E03 17S32	A20	5					B		4	1900—1400	
7			KEMPSEY NSW	AUS	152E50 31S06	A20	5					B		3	1900—1400	
8		S	PT HEDLAND WA	AUS	118E40 20S24	A20	50	17.0				A	41	3	2100—1600	
9			WARRAGUL VIC	AUS	145E56 38S06	A20	5					B		3	1900—1400	
10		S	FUHAI	CHN	87E45 47N00	A12	50	17.4				A	120	4	2000—1800	
11			JINMEN	CHN	118E24 24N36	A12	10	10.4				A	120	4	2000—1800	
12		S	KORLA	CHN	86E10 41N44	A12	50	17.4				A	120	4	2000—1800	
13		S	XINHE	CHN	82E40 41N25	A12	50	17.4				A	120	4	2000—1800	
14		S	YECHENG	CHN	77E22 37N55	A12	50	17.0	110	240—330	15.0	B		4	2000—1800	
15			WELIMADA	CLN	80E57 06N50	A10	50	17.4				A	140	7	0000—1800	
16		S	GREIFSWALD	DDR	13E21 54N04	D 9	5	7.0				A	50	4	0000—2400	
17		S	LEIPZIG	DDR	12E22 51N14	D 9	100	22.1				A	246	4	0000—2400	
18			TORSHAVN	DNK	06W46 62N01	D 9	200	23.0				A	30	4	0000—2400	
19			JOENSUU	FNL	29E49 62N37	D 9	100	22.1				A	300	5	0000—2400	
20			FRIA	GUI	13W17 10N45	C 9	50	17.0				A	60	4	0000—2400	
21			GULBARGA	IND	76E54 17N19	A20	300	25.4				A	225	3	0300—1000	25
22			JODHPUR	IND	72E58 26N20	A20	300	27.0	135	0— 20	18.0	B		4	0000—2400	
23			JODHPUR	IND	72E58 26N20	A20	300	27.0		330—340	21.0	B				
24			PATNA	IND	85E13 25N37	C 9	300	26.9				A	275	3	0300—0900	25
25			TRIVANDRUM	IND	76E59 08N29	A20	300	26.9				A	275	4	0300—1000	25
26			IRANSHAHR	IRN	60E42 27N12	A12	20	13.4				A	134	4	0100—2200	
27			JERUSALEM	ISR	35E13 31N46	D 9	200	25.0				A		3	0000—2400	33
28			MORIOKA	J	141E08 39N38	A15	10	10.4				A	138	5	0000—2400	
29			PYONGCHON	KRE	126E13 38N07	D 9	100	23.0				B		5	2000—1800	
30			FUNCHAL 2	MDR	16W54 32N40	A20	10	10.4				A	90	4	0000—2400	
31		S	ILORIN	NIG	04E32 08N30	C 9	50	17.4				A	125	4	0500—2300	
32		S	ISANLUMAKUTU	NIG	05E45 08N12	C 9	10	10.4				A	125	4	0500—2300	
33			NIUE I	NIU	169W55 19S02	A20	0.3	—4.8				A	75	9	0000—2400	
34			ALEXANDRA	NZL	169E24 45S10	A20	2	3.4				A	107	5	0000—2400	
35			KARACHI	PAK	67E04 24N51	A 9	10	10.4				A	141	4	0300—1200	
36			COTABATO CITY	PHL	124E14 07N13	C 9	10	10.4				A	136	3	0000—2400	
37			JEDRZEJOW	POL	20E17 50N39	A20	1	0.4				A	141	5	0000—2400	
38			KOZIENICE	POL	21E33 51N35	A20	1	0.4				A	141	5	0000—2400	
39			LESKO	POL	22E21 49N29	A20	1	0.4				A	141	5	0000—2400	
40			SANDOMIERZ	POL	21E45 50N41	A20	1	0.4				A	141	5	0000—2400	
41			SEJNY	POL	23E21 54N07	A20	1	0.4				A	141	5	0000—2400	
42			SUCHA	POL	19E36 49N44	A20	1	0.4				A	141	5	0000—2400	
43			TARNOW	POL	21E00 50N01	A20	1	0.4				A	141	5	0000—2400	
44			TOMASZOW LUBEL	POL	23E25 50N28	A20	1	0.4				A	141	5	0000—2400	
45			WEGORZEWO	POL	21E44 54N13	A20	1	0.4				A	141	5	0000—2400	
46			WLODAWA	POL	23E31 51N34	A20	1	0.4				A	141	5	0000—2400	
47			WODZISLAW	POL	18E26 50N01	A20	1	0.4				A	141	5	0000—2400	
48		S	CALARASI	ROU	27E18 44N15	A20	2	3.4				A	120	3	0300—2300	
49		S	PETROSANI	ROU	23E21 45N21	C 9	15	12.2				A	107	4	0000—2400	
50		S	SAVENI	ROU	26E49 47N55	C 9	15	12.2				A	120	2	0300—2300	
51			BEROMUENSTER	SUI	08E10 47N12	D 9	500	27.6				A	215	5	0500—1800	
52			GOTTWALDOV	TCH	17E40 49N13	A20	1	0.0				A	60	5	0000—2400	



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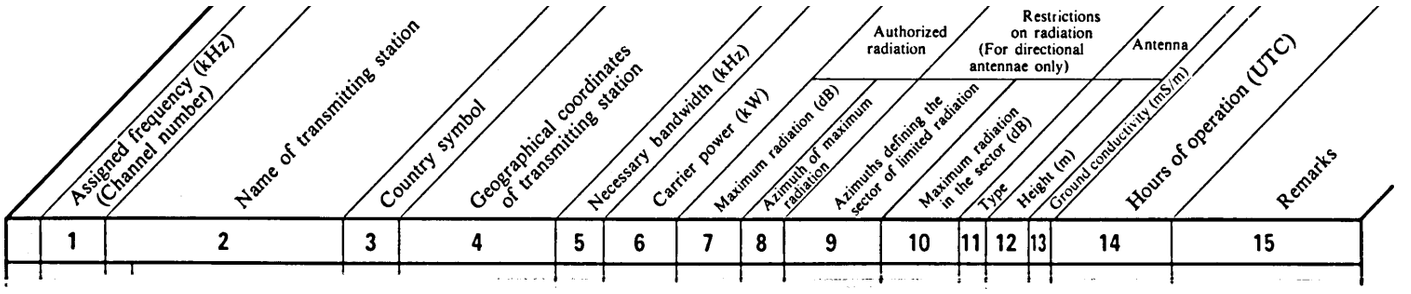
1	531	DAR ES SALAAM	TGK	39E15 06S50	C 9	100	23.0	270	350—190	23.0	B		4	0300—1600	
2	(1)	DAR ES SALAAM	TGK	39E15 06S50	C 9	100					B		4	1600—2100	
3		KHON KAEN	THA	102E49 16N27	A20	50	17.4				A	88	3	0000—2400	
4		MAHA SARAKHAM	THA	103E18 16N10	A20	50	17.4				A	88	3	0000—2400	
5		ALEKSANDROV SA	URS	142E18 50N58	A18	25	16.1				A	257		0000—2400	
6		TCHEBOKSARY	URS	47E05 56N10	A16	30	16.9				A	257	4	0000—2400	
7		URGHENTCH	URS	60E20 41N40	C10	150	26.7	310	80—180	16.7	B		4	0000—2400	
8		TITOVO UZICE	YUG	19E51 43N53	D 9	10	10.4				A	80	4	0500—1700	
9		KISANGANI	ZAI	25E11 00N03	C 9	2	3.4				A	135	6	0000—2400	



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1	540 S DALBY QLD	AUS	151E18 27S08	A20	10	10.6				A	219	3	1900—1400	
2	(2) S LONGREACH QLD	AUS	144E13 23S23	A20	10	10.6				A	198	2	1900—1400	
3	SCOTTSDALE TAS	AUS	147E32 41S06	A20	5					B		4	1900—1400	
4	BRUXELLES VETM	BEL	04E37 50N54	D 9	150	23.9				A	280	4	0600—1800	
5	BRUXELLES VETM	BEL	04E37 50N54	D 9	50	19.1				A	280	4	1800—0600	
6	S ANQUING	CHN	117E00 30N30	A20	10	10.4				A	120	4	2000—1800	
7	S ANXI	CHN	95E32 40N30	A20	5	7.4				A	120	4	2000—1800	
8	S ANYUAN	CHN	115E24 25N09	A20	5	7.4				A	120	4	2000—1800	
9	S AOHAN QI	CHN	119E42 42N20	A20	10	10.4				A	120	4	2000—1800	
10	S BAOAN	CHN	114E05 22N38	A20	10	10.4				A	120	4	2000—1800	
11	S BAQEN	CHN	93E43 32N01	A20	10	10.4				A	120	5	2000—1800	
12	S CHALING	CHN	113E33 26N48	A20	10	10.4				A	120	4	2000—1800	
13	S CHANGDE SHI	CHN	111E42 29N02	A20	20	13.4				A	120	4	2000—1800	
14	S CHUNAN	CHN	118E58 29N36	A20	10	10.4				A	120	4	2000—1800	
15	S CHUXIONG	CHN	101E28 25N02	A20	20	13.4				A	120	5	2000—1800	
16	S COMA	CHN	91E28 28N28	A20	10	10.4				A	120	5	2000—1800	
17	S DAMXUNG	CHN	91E10 30N35	A20	10	10.4				A	120	5	2000—1800	
18	S DARLA	CHN	99E33 33N42	A20	10	10.4				A	120	5	2000—1800	
19	S DENGKOU	CHN	106E43 40N10	A20	20	13.4				A	120	4	2000—1800	
20	S DEZHOU	CHN	116E17 37N27	A20	20	13.4				A	120	4	2000—1800	
21	S DINGHAI	CHN	122E06 30N01	A20	5	7.4				A	120	4	2000—1800	
22	S EJENHORO QI	CHN	109E41 39N15	A20	10	10.4				A	120	4	2000—1800	
23	S FUYUAN	CHN	134E15 48N17	A20	20	13.0	330	80—220	10.0	B		4	2000—1800	
24	S GANGCA	CHN	100E10 37N20	A20	20	13.4				A	120	5	2000—1800	
25	S GERZE	CHN	84E15 32N20	A20	50	17.4				A	120	5	2000—1800	
26	S GUIYANG	CHN	106E36 26N25	A20	50	17.4				A	120	5	2000—1800	
27	S HAIKOU	CHN	110E15 20N02	A20	50	17.4				A	120	4	2000—1800	
28	S HAILAR	CHN	119E45 49N02	A20	20	13.4				A	120	4	2000—1800	
29	S HEFEI	CHN	117E19 31N46	A20	20	13.4				A	120	4	2000—1800	
30	S HENGCHUN	CHN	120E43 22N01	A20	10	12.1				A	240	5	2000—1800	
31	S HEXIGTEN QI	CHN	117E22 43N12	A20	10	10.4				A	120	4	2000—1800	
32	S HUMA	CHN	126E36 51N35	A20	20	13.4				A	120	4	2000—1800	
33	S HUOQIU	CHN	116E15 32N20	A20	5	7.4				A	120	4	2000—1800	
34	S JAGDAQI	CHN	124E05 50N25	A20	20	13.4				A	120	4	2000—1800	
35	S JIANGHUA	CHN	111E46 24N57	A20	10	10.4				A	120	4	2000—1800	
36	S JIAYIN	CHN	130E21 48N42	A20	20	13.4				A	120	4	2000—1800	
37	S JIAYUGUAN	CHN	98E12 39N50	A20	5	7.4				A	120	4	2000—1800	
38	S JINGDONG	CHN	100E45 24N24	A20	5	7.4				A	120	5	2000—1800	
39	S JINGSHAN	CHN	113E06 31N02	A20	20	13.4				A	120	4	2000—1800	
40	S JINING	CHN	113E05 41N02	A20	20	13.4				A	120	4	2000—1800	
41	S JIUJIANG SHI	CHN	116E10 29N39	A20	10	10.4				A	120	4	2000—1800	
42	S KUANDIAN	CHN	124E42 40N44	A20	10	10.4				A	120	4	2000—1800	
43	S KUNMING	CHN	102E50 25N10	A20	50	17.4				A	120	5	2000—1800	
44	S LANZHOU	CHN	103E50 36N02	A20	20	13.4				A	120	4	2000—1800	
45	S LIAOCHENG	CHN	115E58 36N26	A20	10	10.4				A	120	4	2000—1800	
46	S LINGLING	CHN	111E37 26N13	A20	10	10.4				A	120	4	2000—1800	
47	S LINHAI	CHN	121E07 28N51	A20	20	13.4				A	120	4	2000—1800	
48	S LINTAN	CHN	103E21 34N42	A20	5	7.4				A	120	4	2000—1800	
49	S LONGJIANG	CHN	123E14 47N20	A20	1	0.4				A	120	4	2000—1800	
50	S LONGQUAN	CHN	119E07 28N04	A20	10	10.4				A	120	4	2000—1800	
51	S LUDA	CHN	121E30 38N54	A20	10	10.4				A	120	4	2000—1800	
52	S LUFENG	CHN	115E38 22N57	A20	20	13.4				A	120	4	2000—1800	
53	S MAOMING	CHN	110E51 21N56	A20	50	17.4				A	120	4	2000—1800	
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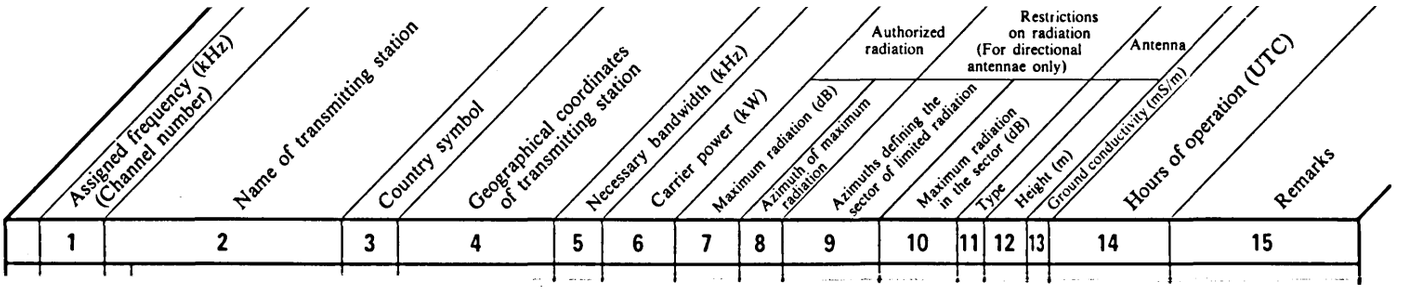

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2	(2)	S	MUDANJIANG	CHN	129E36 44N36	A20	10	10.4				A	120	4	2000—1800	
3		S	NINGGANG	CHN	113E58 26N46	A20	5	7.4				A	120	4	2000—1800	
4		S	NINGGUO	CHN	118E58 30N38	A20	5	7.4				A	120	4	2000—1800	
5		S	PANSHAN	CHN	122E02 41N08	A20	5	7.4				A	120	4	2000—1800	
6		S	PENGHU	CHN	119E33 23N34	A20	20	13.4				A	120	5	2000—1800	
7		S	PUER	CHN	101E02 22N57	A20	20	13.4				A	120	5	2000—1800	
8		S	QABDO	CHN	97E05 31N11	A20	50	17.4				A	120	5	2000—1800	
9		S	RUSHAN	CHN	121E29 36N53	A20	20	13.4				A	120	4	2000—1800	
10		S	SAGA	CHN	85E18 29N25	A20	10	10.4				A	120	5	2000—1800	
11		S	SHAN XIAN	CHN	116E05 34N48	A20	5	7.4				A	120	4	2000—1800	
12		S	SHANGHAI	CHN	121E29 31N15	A20	50	17.4				A	120	3	2000—1800	
13		S	SHANGRAO SHI	CHN	118E15 28N20	A20	10	10.4				A	120	4	2000—1800	
14		S	SHAOGUAN	CHN	113E32 24N47	A20	10	10.4				A	120	4	2000—1800	
15		S	SHAOXING	CHN	120E34 30N00	A20	10	10.4				A	120	4	2000—1800	
16		S	SHENYANG	CHN	123E36 41N54	A20	20	13.4				A	120	4	2000—1800	
17		S	SHUANGFENG	CHN	112E11 27N27	A20	5	7.4				A	120	4	2000—1800	
18		S	SHUANGYASHAN	CHN	131E05 46N32	A20	5	7.4				A	120	4	2000—1800	
19		S	SU XIAN	CHN	116E58 33N39	A20	20	13.4				A	120	4	2000—1800	
20		S	SUIHUA	CHN	126E50 46N34	A20	20	13.4				A	120	4	2000—1800	
21		S	SUIZHONG	CHN	120E20 40N21	A20	5	7.4				A	120	4	2000—1800	
22		S	SUNID YOUQI	CHN	113E35 43N45	A20	10	10.4				A	120	4	2000—1800	
23		S	TENGCHONG	CHN	98E20 25N00	A20	20	13.4				A	120	5	2000—1800	
24		S	TIANJIN	CHN	117E09 39N09	A20	20	13.4				A	120	4	2000—1800	
25		S	TIANSHUI SHI	CHN	105E30 34N30	A20	10	10.4				A	120	4	2000—1800	
26		S	TONGREN 1	CHN	102E01 35N31	A20	10	10.4				A	120	5	2000—1800	
27		S	TONGREN 2	CHN	109E13 27N43	A20	20	13.4				A	120	5	2000—1800	
28		S	TONGZI	CHN	106E49 28N08	A20	5	7.4				A	120	5	2000—1800	
29		S	WEINING	CHN	104E17 26N52	A20	20	13.4				A	120	5	2000—1800	
30		S	WEIXI	CHN	99E12 27N10	A20	10	10.4				A	120	5	2000—1800	
31		S	WENSHAN	CHN	104E15 23N22	A20	5	7.4				A	120	5	2000—1800	
32		S	WUFENG	CHN	110E40 30N12	A20	25	14.4				A	120	4	2000—1800	
33		S	WUXING	CHN	120E07 30N51	A20	5	7.4				A	120	4	2000—1800	
34		S	XI UJUMQIN QI	CHN	117E33 44N38	A20	20	13.4				A	120	4	2000—1800	
35		S	XIANNING	CHN	114E17 29N52	A20	10	10.4				A	120	4	2000—1800	
36		S	XIAOYI	CHN	111E48 37N07	A20	10	10.4				A	120	4	2000—1800	
37		S	XIGAZE	CHN	89E00 29N20	A20	10	10.4				A	120	5	2000—1800	
38		S	XIN XIAN	CHN	112E40 38N25	A20	10	10.4				A	120	4	2000—1800	
39		S	XINGGUO	CHN	115E21 26N20	A20	5	7.4				A	120	4	2000—1800	
40		S	XINGYI	CHN	104E52 25N07	A20	10	10.4				A	120	5	2000—1800	
41		S	XINZHU	CHN	120E58 24N48	A20	10	12.1				A	240	5	2000—1800	
42		S	XUPU	CHN	110E35 27N55	A20	10	10.4				A	120	4	2000—1800	
43		S	YANGCHENG	CHN	112E25 35N29	A20	10	10.4				A	120	4	2000—1800	
44		S	YICHUN 1	CHN	114E25 27N48	A20	10	10.4				A	120	4	2000—1800	
45		S	YULI	CHN	121E19 23N20	A20	10	12.1				A	240	5	2000—1800	
46		S	YUNLONG	CHN	99E19 25N56	A20	5	7.4				A	120	5	2000—1800	
47		S	ZAMDA	CHN	79E46 31N28	A20	10	10.4				A	120	5	2000—1800	
48		S	ZHAOQING	CHN	112E27 23N03	A20	20	13.4				A	120	4	2000—1800	
49		S	ZHENGLAN QI	CHN	116E00 42N18	A20	10	10.4				A	120	4	2000—1800	
50		S	ZHONGDIAN	CHN	99E37 27N45	A20	5	7.4				A	120	5	2000—1800	
51		S	ZIBO	CHN	118E03 36N48	A20	5	7.4				A	120	4	2000—1800	
52		S	ZUOQUAN	CHN	113E22 37N05	A20	10	10.4				A	120	4	2000—1800	
53			RATNAPURA	CLN	80E22 06N40	A10	50	17.4				A	140	7	0000—1800	
54			PNT NOIRE	COG	12E01 04S51	A20	100	22.1				A	278	5	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	540		GHIMBI	ETH	35E49 09N11	A 9	10	10.4				A	140	3	0400—2100	
2	(2)	S	ENONTEKIO	FNL	23E38 68N24	D 9	45	16.9				A	150	6	0000—2400	
3		S	HAMEENLINNA	FNL	24E27 61N01	D 9	10	10.4				A	150	5	0000—2400	
4		S	KAJAANI	FNL	28E20 64N10	D 9	45	16.9				A	150	6	0000—2400	45
5		S	OULU	FNL	25E32 65N00	D 9	10	10.3				A	100	5	0000—2400	46
6			SOLT	HNG	19E02 46N52	D 9	2000	35.1				A	298	4	0300—0100	
7			ANCONA	I	13E29 43N36	D 9	10	10.4				A	124	4	0400—1700	7
8			CAGLIARI	I	09E04 39N18	D 9	50	17.6				A	222	4	0400—1700	7
9			CATANIA	I	15E05 37N32	D 9	10	10.4				A	139	5	0400—1700	7
10			TORINO	I	07E44 45N02	D 9	50	17.6				A	202	4	0400—1700	7
11			AIJAL	IND	92E43 23N43	A20	20	14.0	160	330—350	10.0	B		4	0000—2400	
12			BANDUNG	INS	107E34 06S57	A18	5	7.4				A	139	4	2200—1700	
13			CONAMARA	IRL	09W36 53N19	A20	2	3.4				A	91	5	0000—2400	
14			MASHHAD	IRN	59E38 36N16	A20	100	22.1				A	259	3	0100—2200	
15			ISHIGAKI	J	124E09 24N22	A15	1	0.4				A	106	5	0000—2400	
16			KITAKYUSHU	J	130E52 33N53	A15	1	0.0				A	52	5	0000—2400	
17			MATSUMOTO	J	137E57 36N13	A15	1	0.4				A	108	5	0000—2400	
18			MIYAZAKI	J	131E27 31N57	A15	5	7.4				A	106	4	0000—2400	
19			NANAO	J	137E00 37N02	A15	1	1.0	330			B		4	0000—2400	
20			YAMAGATA	J	140E20 38N17	A15	5	10.0	330			B		5	0000—2400	
21			VOI	KEN	38E35 03S20	C 9	50	17.4				A	130	4	0000—2400	
22			CHANGSU	KOR	127E35 35N43	C10	1	0.4				A	80	6	0000—2400	
23			HONGSEONG	KOR	126E39 36N35	C10	10	10.4				A	80	4	0000—2400	
24			JUMCHON	KOR	128E12 36N36	C10	1	0.4				A	120	6	0000—2400	
25			YEONGWEOL	KOR	128E28 37N10	C10	1	0.4				A	120		0000—2400	
26			MYONGGAN	KRE	129E31 41N16	A16	10	14.0				B		6	2000—1800	
27			SULAIBIYA	KWT	47E53 29N16	A20	1500	39.0	284	350—220	30.0	B		8	0000—2400	24
28			SIKASSO	MLI	05W40 11N19	C 9	100	22.1				A	278		0600—2400	
29			TSETSERLIG	MNG	101E10 47N30	A18	50	19.1		140—220	4.6	B		5	0800—1500	
30			MAGUDE	MOZ	32E39 25S02	C10	5	7.4				A	90	4	0400—2200	
31			SIDI BENNOUR	MRC	08W17 32N44	C 9	600	30.8	210	290—310	21.8	B		6	0600—2400	24
32			MANGOCHI	MWI	35E14 14S27	A20	10	10.4				A	92	3	0200—2300	
33			SOKOTO	NIG	05E20 13N10	C 9	50	17.4				A	100	4	0500—2400	
34			WAIMIHA	NZL	175E19 38S37	A20	30	18.0	90	250—300	10.0	B		4	0000—2400	
35			PANJGUR	PAK	65E00 27N00	A20	100	20.4				A	132	4	0000—2000	
36			CEBU CITY	PHL	123E52 10N17	C 9	5	7.4				A	139	3	2100—1600	
37			MT PROVINCE	PHL	120E37 16N26	C 9	10	10.4				A	139	3	2100—1500	
38			NYALA	SDN	24E58 12N03	A20	250	24.6				A	221	4	0400—2200	24
39			BANGKOK	THA	100E31 13N48	A20	10	10.0				A	50	2	0000—2400	
40			AYDINCIK	TUR	33E12 36N20	D 9	600	31.0	80	140—210	13.0	B		4	0200—2300	
41			AYDINCIK	TUR	33E12 36N20	D 9	600	31.0		305— 40	18.0	B				
42			ENISEISK	URS	92E05 58N27	A16	50	17.4				A	130	4	0000—2400	
43			ORENBURG	URS	54E47 51N46	A16	100	22.1				A	257	4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	549		LES TREMBLES	ALG	00W37 35N17	D 9	600	29.9				A	268	4	0000—2400	
2	(3)		DIRIYAH	ARS	46E37 24N39	C10	1	0.4				A	107	4	0300—2300	
3			DUBA	ARS	35E36 27N25	C 9	2000	41.0	296	350—250	25.0	B		4	0300—1600	
4			GIZAN	ARS	42E31 16N52	C 9	1000	35.0	120	220— 80	15.0	B		4	1500—0300	
5		S	CUMNOCK NSW	AUS	148E42 32S46	A20	50	17.6				A	198	4	1900—1400	
6		S	GRAFTON NSW	AUS	153E07 29S29	A20	50	17.4				A	152	3	1900—1400	
7		S	MINSK	BLR	27E34 53N56	A16	1000	32.1				A	257	4	0000—2400	
8			CHIFENG SHI	CHN	118E52 42N18	A20	5	7.4				A	120	4	2000—1800	
9		S	SANMING	CHN	117E36 26N14	A20	100	22.1				A	240	4	2000—1800	
10		S	ZHANGZHOU	CHN	117E40 24N30	A20	100	22.1				A	240	4	2000—1800	
11		S	BAYREUTH	D	11E30 50N00	D 9	200	23.6				A	200	4	0000—2400	
12		S	RECKLINGHAUSEN	D	07E25 51N45	D 9	100	20.4	55	200—270	12.0	B		4	0000—2400	
13		S	ALMANSA	E	01W06 38N52	D 9	0.3	−5.2				A	50	5	0000—2400	19
14		S	BAZA	E	02W46 37N29	D 9	0.3	−5.2				A	50	5	0000—2400	19
15		S	BEJAR	E	05W46 40N23	D 9	0.3	−5.2				A	50	5	0000—2400	19
16		S	CD REAL	E	03W56 38N59	D 9	0.5	−3.0				A	50	4	0000—2400	19
17		S	CUENCA	E	02W08 40N04	D 9	0.5	−3.0				A	50	5	0000—2400	19
18		S	LOGRONO	E	02W30 42N26	D 9	20	13.4				A	96	4	0000—2400	19
19		S	MALAGA	E	04W29 36N38	D 9	20	13.0				A	40	5	0000—2400	19
20		S	OVIEDO	E	05W52 43N23	D 9	100	20.4				A	127	5	0000—2400	19
21		S	POZOBLANCO	E	04W51 38N23	D 9	0.3	−5.2				A	50	5	0000—2400	19
22		S	TORTOSA	E	00E31 40N49	D 9	0.5	−3.0				A	50	4	0000—2400	19
23		S	VALLADOLID	E	04W43 41N39	D 9	1	0.0				A	50	4	0000—2400	19
24			ASSAB	ETH	42E46 13N01	C 9	50	17.4				A	137	3	0400—2300	
25			OYEM	GAB	11E36 01N40	C 9	20	13.4				A	100	5	0400—2400	
26			BIKANER	IND	73E22 28N01	A20	300	26.9				A	275	4	0300—0900	25
27			RANCHI	IND	85E23 23N23	C 9	200	25.1				A	275	3	0000—2400	
28			TINNEVELLY	IND	77E44 08N44	C 9	300	26.9				A	275	3	0300—1000	25
29			NAHA	J	127E42 26N10	A15	10	10.4				A	107	4	0000—2400	
30			RAMALLAH	JOR	35E13 31N55	A20	20	13.6				A	220	5	0300—2300	
31			SEOUL	KOR	126E59 37N32	C10	5	7.4				A	90	4	0000—2400	
32			JHANGJIN	KRE	127E35 40N23	A16	10	15.0				B		7	2000—1800	
33			TELZNOUB	LBN	35E46 33N39	A20	100	25.0	210	297—352	1.0	B		4	0300—2400	
34			BATU MELINTANG	MLA	101E44 05N43	A20	5	7.0				A	61	5	2200—1700	
35			KUCHING	MLA	110E20 01N33	A20	20	13.4				A	137	5	2200—1600	
36			UBURKHANGAI	MNG	102E20 46N20	A18	10	10.6				A	200	5	2200—1500	
37			KANO	NIG	08E33 12N03	C 9	50	17.4				A	125	4	0500—2300	
38			BASILAN CITY	PHL	121E58 06N42	C 9	5	7.4				A	136	3	2100—1600	
39			KRABI	THA	98E55 08N33	A20	10	10.0				A	30	3	0000—2400	
40			LAMPANG	THA	99E21 18N20	A20	100	23.0	350			B		5	0000—2400	
41		S	ROVNO	UKR	26E14 50N39	A16	150	23.9				A	257	4	0000—2400	
42		S	SIMFEROPOL	UKR	34E03 44N58	A16	100	22.1				A	257	4	0000—2400	
43		S	ALMA ATA	URS	77E02 43N15	A16	1000	34.0	340	150—180	25.0	B		4	0000—2400	
44		S	DUCHANBE	URS	68E49 38N34	A16	50	19.1				A	257	4	0000—2400	
45		S	IAKUTSK	URS	129E42 61N51	A16	50	19.1				A	257	5	0000—2400	
46		S	KALININGRAD	URS	20E30 54N45	A16	25	16.1				A	257		0000—2400	
47		S	KICHINIOV	URS	28E52 47N00	A16	1000	33.0	90	200—210	24.0	B		4	0000—2400	
48		S	KIROVOBAD	URS	46E21 40N39	A16	65	20.2				A	257	4	0000—2400	
49		S	LENINGRAD	URS	30E00 59N44	A16	100	22.1				A	257	4	0000—2400	
50		S	MAGADAN	URS	151E50 59N40	A16	500	29.1				A	257	5	0000—2400	
51		S	MOSKVA	URS	37E08 55N54	A16	100	22.1				A	257	4	0000—2400	
52		S	NOVOKUZNETSK	URS	87E07 53N45	A18	150	23.9				A	257	4	0000—2400	
53		S	SVOBODNYI	URS	128E00 51N30	C 9	150	23.9				A	257	4	0000—2400	
54		S	TIUMEN	URS	65E30 57N02	A18	150	23.9				A	257	4	0000—2400	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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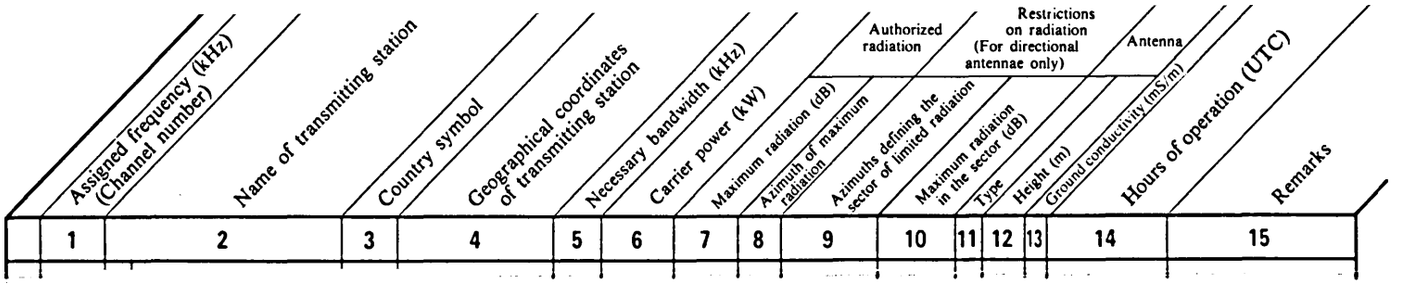
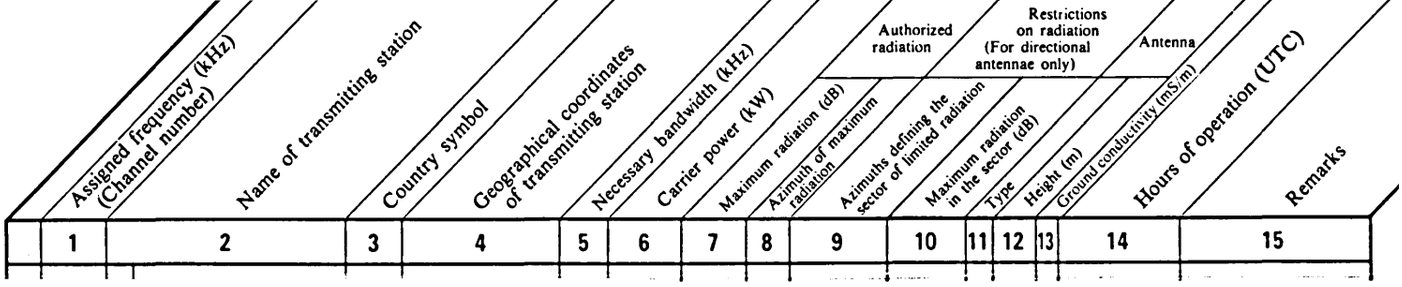
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	549	S	UKHTA KAR	URS	31E09 65N11	A16	20	15.1				A	257	4	0000—2400	
2	(3)	S	URGHENTCH	URS	60E20 41N40	A18	150	23.9				A	257	4	0000—2400	
3		S	VLADIVOSTOK	URS	131E58 43N09	C10	150	23.9				A	257	4	0000—2400	
4			BELI KRIZ	YUG	13E35 45N31	D 9	20	13.0				A	168	4	0000—2400	
5			PEC	YUG	20E18 42N39	D 9	100	24.0	200	350— 50	0.0	B		4	0000—2400	
6			KITWE	ZMB	28E12 12S46	A20	100	20.4				A	150	4	0200—2100	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	558		TOUGGOURT	ALG	06E04 33N05	A20	4	6.0				A	45	5	0600—2400	
2	(4)		UMMLAJJ	ARS	37E15 25N05	C 9	20	13.4				A	120	4	0400—1400	
3			ATHERTON QLD	AUS	145E29 17S01	A20	5					B		4	1900—1400	
4			BURNIE TAS	AUS	145E52 41S03	A20	5	7.0				A	64	3	1900—1400	
5			CANBERRA ACT	AUS	149E08 35S13	A20	1	0.4				A	125	3	1900—1400	
6		S	DERBY WA	AUS	123E40 17S21	A20	10	10.0				A	41	3	2100—1600	
7			GYMPIE QLD	AUS	152E49 26S10	A20	5					B		4	0000—2400	
8		S	WAGIN WA	AUS	117E05 33S20	A20	50	19.1				A	205	3	2100—1600	
9			KHULNA	BGD	89E37 22N48	A20	100	20.4				A	122	3	0000—1800	
10		S	AKSU	CHN	80E19 41N03	A20	10	10.4				A	120	4	2000—1800	
11		S	ALTAY	CHN	88E18 47N50	A20	10	10.4				A	120	4	2000—1800	
12		S	BOLE	CHN	82E08 44N54	A20	10	10.4				A	120	4	2000—1800	
13			CHANGCHUN	CHN	125E24 43N48	A20	10	10.4				A	120	4	2000—1800	
14		S	CHANGTING	CHN	116E18 25N50	A20	10	10.4				A	120	4	2000—1800	
15		S	FUAN	CHN	119E33 27N11	A20	10	10.4				A	120	4	2000—1800	
16		S	HAMI	CHN	93E20 42N50	A20	10	10.4				A	120	4	2000—1800	
17			HEKOU	CHN	103E59 22N32	A20	1	0.4				A	120	5	2000—1800	
18		S	JIANYANG	CHN	118E08 27N20	A20	50	17.4				A	120	4	2000—1800	
19		S	KARAMAY	CHN	85E00 45N32	A20	10	10.4				A	120	4	2000—1800	
20		S	KORLA	CHN	86E10 41N44	A20	10	10.4				A	120	4	2000—1800	
21		S	QUANZHOU 1	CHN	118E33 24N53	A20	20	13.4				A	120	4	2000—1800	
22		S	YECHENG	CHN	77E22 37N55	A20	20	13.4				A	120	4	2000—1800	
23			DIYAGAMA	CLN	79E58 06N50	C10	50	17.0				A	60	5	0000—1800	
24			PAPHOS	CYP	32E22 34N52	C 9	50	17.4				A	100	5	0000—2400	
25		S	NEUBRANDENBURG	DDR	13E05 53N30	D 9	10	10.0				A	50	4	0000—2400	
26		S	PUTBUS	DDR	13E39 54N32	D 9	10	10.0				A	20	3	0600—1700	
27		S	ROSTOCK	DDR	12E05 54N06	D 9	20	13.0				A	50	3	0000—2400	
28			ABU ZABAL	EGY	31E22 30N16	D 9	1000	30.6				A	205	3	0000—2400	
29			NAULU REWA	FJI	178E32 18S04	A20	10	10.0				A	60	5	1700—1200	
30			HELSINKI	FNL	24E49 60N11	D 9	100	20.6				A	153	5	0000—2400	42/PORVOO
31			PORVOO	FNL	25E42 60N19	D 9	600	30.8	25	180—230	24.8	B		4	0000—2400	41/HELSINKI
32			BOMBAY	IND	72E54 18N53	A20	300	26.9				A	270	3	0300—1000	25
33			BOMBAY	IND	72E54 18N53	A20	100	22.1				A	270	3	1000—0300	
34			LEH	IND	77E35 34N09	A20	20	15.1				A	270	4	0300—0900	25
35			VIZAGAPATAM	IND	83E20 17N42	A20	300	26.9				A	270	4	0300—1000	25
36			QESHLAGH	IRN	50E25 36N02	A20	1000	32.1				A	258	3	0100—2200	
37			KOBE	J	135E00 34N36	A15	20	16.0	40			B		4	0000—2400	
38			NANDI HILLS	KEN	35E02 00N15	C 9	20	13.4				A	130	4	0000—2400	
39			POHANG	KOR	129E33 36N04	C10	250	28.0	280	90—110	4.0	B		5	0000—2400	
40			GBARNGA	LBR	09W28 07N28	A20	100	20.4				A	134	5	0500—2400	
41			TRIPOLI KM16	LBY	13E00 32N50	D 9	300	29.0	340	100—220	19.0	B		4	0500—1800	
42			INHAMBANE	MOZ	35E23 23S53	C10	5	7.4				A	90	4	0400—2200	
43			KARONGA	MWI	33E51 09S55	A20	10	10.4				A	92	3	0200—2300	
44			MAYOTTE 2	MYT	45E14 12S45	A20	10	10.0				A	50	4	0000—2400	
45			SOKOTO	NIG	05E18 12N57	C 9	250	24.4				A	115	4	0500—2300	
46			INVERCARGILL	NZL	168E37 46S19	A20	5	7.4				A	150	3	0000—2400	
47			ILOILO CITY	PHL	122E34 10N41	C 9	1	0.4				A	134	3	2100—1600	
48			QUEZON CITY	PHL	122E10 14N38	C 9	10	10.4				A	134	3	0000—2400	
49			TAGUM DAVAO	PHL	125E48 07N26	C 9	5	7.4				A	134	3	2100—1600	
50			FARO	POR	07W53 37N01	A20	10	10.4				A	90	3	0000—2400	
51		S	BORSA	ROU	24E50 47N34	A20	1	0.4				A	120	5	0300—2300	
52		S	CIMPENI	ROU	23E05 46N23	A20	1	0.4				A	120	5	0300—2300	
53		S	SINICOLAUL MAR	ROU	20E36 46N05	A20	2	3.4				A	135	2	0300—2300	
54		S	TARGU JIU	ROU	23E17 45N03	A20	200	26.0	145	270— 20	13.0	B		5	0000—2400	

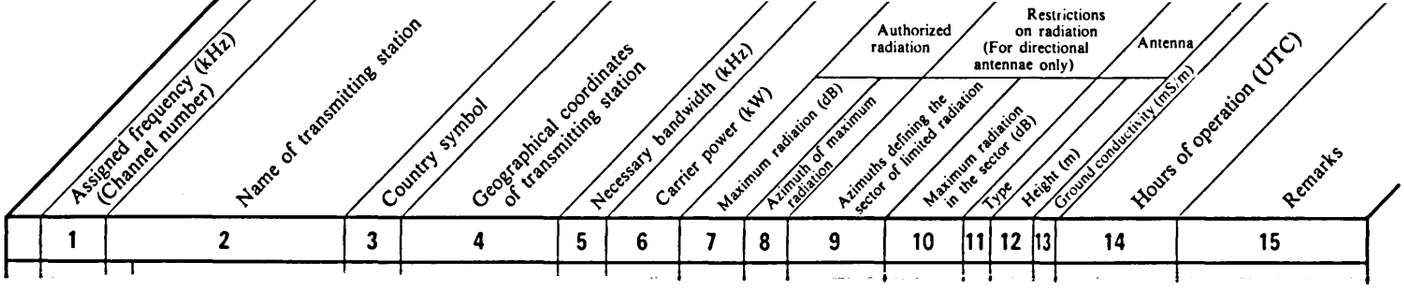
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	558	EN NOHUD	SDN	28E23 12N40	A20	100	23.4				A	333	4	0400—1500	
2	(4)	MT CENERI	SUI	08E55 46N08	D 9	300	26.9				A	250	7	0500—2400	
3		CESKY KRUMLOV	TCH	14E19 48N48	A20	1	0.0				A	60	5	0000—2400	
4		MARTIN	TCH	18E55 49N04	A20	1	0.0				A	60	5	0000—2400	
5		PLZEN MESTO	TCH	13E23 49N45	A20	1	0.0				A	60	5	0000—2400	
6		USTI N ORLICI	TCH	16E24 49N58	A20	1	0.0				A	60	5	0000—2400	
7		CHAIYAPHUM	THA	102E04 15N51	A20	10	10.0				A	54	2	0000—2400	
8		SONGKHLA	THA	100E28 07N02	A20	50	20.0	220			B		3	0000—2400	
9		TAVAS	TUR	29E04 37N34	D 9	300	30.0	195	270—300	22.0	B		4	0200—2300	5/ROU
10		TAVAS	TUR	29E04 37N34	D 9	300	30.0	15	90—120	22.0	B				
11		UGLEGORSK	URS	142E10 48N59	A18	25	19.0	60	220—260	8.0	B		4	0000—2400	
12		MARIBOR	YUG	15E40 46N32	D 9	100	20.4				A	110	4	0400—1700	
13		MARIBOR	YUG	15E40 46N32	D 9	20	13.4				A	110	4	1700—0400	

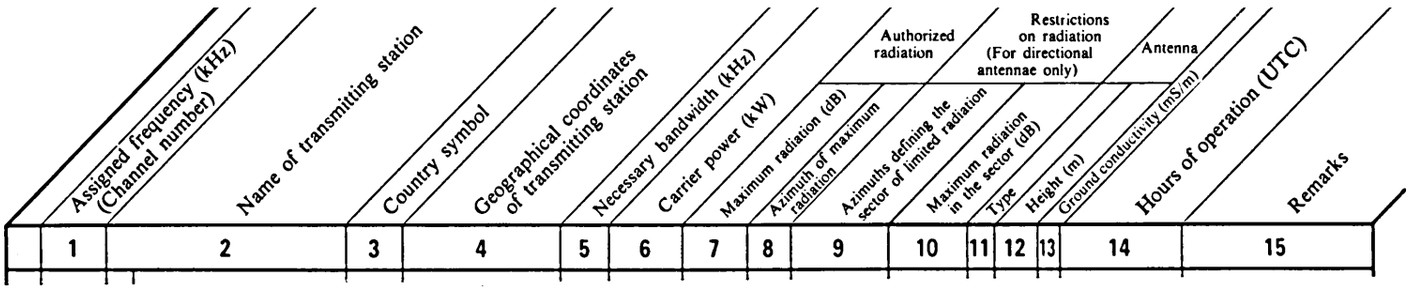


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	567		EL AAIUN	AOE	13W12 27N10	A20	5	7.0				A	30	4	0000—2400	11/E
2	(5)		JEDDAH	ARS	39E25 21N22	C10	50	17.4				A	107	3	0300—2300	24
3			BROKEN HLL NSW	AUS	141E26 32S03	A20	0.5	−3.0				A	61	2	1900—1400	
4		S	CHARLEVIL QLD	AUS	146E13 26S23	A20	10					B		2	1900—1400	
5		S	JULIA CK QLD	AUS	141E49 20S39	A20	10					B		2	1900—1400	
6			MT NEWMAN WA	AUS	119E45 23S19	A20	0.3	−6.0				A	30	3	2100—1600	
7			PANNAWONICA WA	AUS	116E19 21S38	A20	0.1	−10.0				A	30	3	2100—1600	
8			PARABURDOO WA	AUS	117E44 23S10	A20	0.1	−10.0				A	30	3	2100—1600	
9			TOM PRICE	AUS	117E47 22S41	A20	0.1	−10.0				A	30	3	2100—1600	
10			BOSSEMBELE	CAF	17E39 05N15	C 9	30	14.8				A	66	5	0400—2300	
11		S	CANGZHOU	CHN	116E51 38N18	A20	100	22.1				A	240	4	2000—1800	
12		S	QINHUANGDAO	CHN	119E32 39N55	A20	100	20.0	280	50—150	17.0	B		4	2000—1800	
13		S	ZHANGJIAKOU	CHN	114E51 40N49	A20	100	22.1				A	240	4	2000—1800	
14			SENKADAGALA	CLN	80E40 07N10	C10	20	13.4				A	116	6	0100—1800	
15			BERLIN 1	D	13E14 52N30	D 9	100	20.4				A	120	5	0000—2400	
16			HARRAR	ETH	42E08 09N18	C 9	10	10.4				A	133	3	0400—2100	
17			GOLDEN HILL	HKG	114E09 22N22	A20	20	13.4				A	92	5	2200—1800	
18		S	AOSTA	I	07E18 45N42	D 9	10	12.0	190	310	3.0	B		5	0000—2400	
19		S	AOSTA	I	07E18 45N42	D 9	10	12.0	70			B				
20		S	BOLZANO	I	11E17 46N24	D 9	25	16.0	120	290—315	11.0	B		5	0000—2400	
21		S	CALTANISSETTA	I	14E05 37N30	D 9	50	20.0	140	315—330	16.0	B		4	0000—2400	
22		S	FIRENZE	I	11E16 43N49	D 9	100	21.0	140	305—325	17.0	B		4	0000—2400	
23		S	FOGGIA	I	15E33 41N28	D 9	50	19.0	130	305—325	7.0	B		3	0000—2400	
24		S	SASSARI	I	08E27 40N45	D 9	10	13.0	70	315—330	7.0	B		4	0000—2400	
25			CUDDAPAH	IND	78E49 14N29	A20	300	26.9				A	265	3	0300—1000	25
26			DIBRUGARH	IND	94E58 27N29	A20	300	26.9				A	265	3	0000—2400	
27			GORAKHPUR	IND	83E28 26N52	C 9	100	22.1				A	265	3	0300—0900	25
28			JAISALMER	IND	70E57 26N55	A20	300	26.9				A	265	4	0300—0900	25
29			TULLAMORE 1	IRL	07W22 53N17	A20	500	29.1				A	296	4	0000—2400	
30			SAPPORO	J	141E37 43N05	A15	100	20.6				A	184	4	0000—2400	
31			NAIROBI	KEN	36E55 01S35	C 9	100	20.4				A	100	4	0000—2400	
32			CHONJU	KOR	126E52 35N49	C10	100	20.6				A	200	5	0000—2400	
33			TENOM	MLA	115E57 05N08	A20	10	10.6				A	150	5	0000—2400	
34			OUARZAZATE	MRC	06W50 30N55	C 9	100	20.6				A	200	4	0500—0300	24
35			UZALLA	NIG	05E43 06N32	C 9	100	20.4				A	140	4	0500—2300	
36			WELLINGTON	NZL	174E51 41S06	A20	100	22.1				A	218	4	0000—2400	
37			KHOZDAR	PAK	66E30 27N28	A18	300	28.8	240			B		4	0000—2000	
38			PESHAWAR	PAK	71E50 34N00	A20	300	25.2				A	121	4	0000—2000	
39			AGOO LA UNION	PHL	120E21 16N19	C 9	1	0.4				A	132	3	2100—1600	
40			BROOKES PT PAL	PHL	117E47 08N48	C 9	1	0.4				A	132	3	2100—1600	
41			TACLOBAN CITY	PHL	124E59 11N14	C 9	1	0.4				A	134	3	2100—1600	
42		S	BRASOV	ROU	25E36 45N43	A20	50	19.0	200	260—350	7.0	B		5	0300—2300	
43		S	BRASOV	ROU	25E36 45N43	A20	50	19.0	40	80—140	7.0	B				
44		S	SATU MARE	ROU	22E51 47N50	A20	50	20.0	120	240—360	7.0	B		5	0300—2300	
45			HOMS TERMALEY	SYR	36E42 34N47	C 9	300	29.8	145			B		3	0300—2400	
46			LUCENEC	TCH	19E40 48N20	A20	1	0.0				A	60	5	0000—2400	
47			POV BYSTRICA	TCH	18E28 49N26	A20	1	0.0				A	60	5	0000—2400	
48			SURIN	THA	103E31 14N54	A20	50	17.4				A	132	3	0000—2400	
49		S	ARKALYK	URS	66E30 50N30	A18	150	23.9				A	257	4	0100—1100	
50			KYZYL	URS	94E28 51N43	A18	150	22.2				A	130	4	0000—2400	
51		S	TURKESTAN	URS	68E17 43N17	A18	50	19.1				A	257	4	0000—1000	
52		S	USTKAMENOGORSK	URS	82E36 49N55	A18	150	23.9				A	257	4	0000—1000	
53			VOLGOGRAD	URS	44E28 48N42	C10	250	26.1				A	257	4	0000—2400	

Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	567	STRUMICA	YUG	22E39 41N27	D 9	10	10.0				A	60	4	0800—1500	
2	(5)	STRUMICA	YUG	22E39 41N27	D 9	2	3.0				A	60	4	1500—0800	
3		LUBUMBASHI	ZAI	27E28 11S39	C 9	2	3.4				A	130	7	0000—2400	
4		KASAMA	ZMB	31E15 10S15	A20	50	17.6				A	185	4	0200—2100	



	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	576		BECHAR	ALG	02W15	31N36	D 9	400	31.0	225	30— 60	21.0	B		5	0000—2400	24
2	(6)		GIZAN	ARS	42E31	16N52	C10	1	0.4				A	107	3	0300—2300	24
3		S	BOURKE NSW	AUS	146E00	30S09	A20	10	12.1				A	226	3	1900—1400	
4		S	SYDNEY NSW	AUS	150E53	33S56	A20	50	19.1				A	226	4	2000—1500	
5			PNT DELGADA	AZR	25W40	37N45	A20	10	10.0				A	130	4	0000—2400	
6			VIDIN	BUL	22E40	43N39	C 9	1000	35.0	125			B		4	0000—2400	5/ISR
7		S	DONGCHUAN	CHN	103E18	26N08	A20	10	10.4				A	120	5	2000—1800	
8		S	HEKOU	CHN	103E59	22N32	A20	20	13.4				A	120	5	2000—1800	
9		S	LIJIANG	CHN	100E15	26N55	A20	20	13.4				A	120	5	2000—1800	
10		S	LINCANG	CHN	100E02	23N52	A20	20	13.4				A	120	5	2000—1800	
11		S	LUCHUN	CHN	102E20	23N00	A20	10	10.4				A	120	5	2000—1800	
12		S	LUXI	CHN	98E34	24N27	A20	20	13.4				A	120	5	2000—1800	
13		S	QIUBEI	CHN	104E11	24N02	A20	50	17.4				A	120	5	2000—1800	
14		S	XIAGUAN	CHN	100E13	25N34	A20	10	10.4				A	120	5	2000—1800	
15			YANJI SHI	CHN	129E30	42N54	A20	1	0.4				A	100	4	2000—1800	
16			STUTTGART MLKR	D	08E51	48N57	D 9	300	26.9				A	273	4	0700—1600	
17			STUTTGART MLKR	D	08E51	48N57	D 9	300	26.8	222	30— 50	12.8	B		4	1600—0700	
18			STUTTGART MLKR	D	08E51	48N57	D 9	300	26.8		106—122	21.8	B				
19			SCHWERIN	DDR	11E31	53N23	D 9	250	26.0	140	40— 60	12.0	B		4	0000—2400	
20			SCHWERIN	DDR	11E31	53N23	D 9	250	26.0		230—240	12.0	B				
21			ALLEPPEY	IND	76E23	09N30	A20	200	25.1				A	260	4	0000—2400	
22			BHUJ	IND	69E43	23N15	A20	300	26.9				A	260	3	0300—0900	25
23			CUTTACK	IND	85E55	20N35	A20	300	26.9				A	260	3	0300—0900	25
24			ABADAN	IRN	48E15	30N22	A20	600	31.8	160	230— 80	25.8	B		2	0200—1500	
25			ABADAN	IRN	48E15	30N22	A20	10	10.4				A	130	2	1500—2200	
26			TEL AVIV 2	ISR	35E00	32N15	D 9	200	25.0				A	180	3	0000—2400	5/BUL 33
27			KAGOSHIMA	J	130E45	31N43	A15	10	10.4				A	103	4	0000—2400	
28			MUNSAN	KOR	126E47	37N50	C10	5	7.4				A	90	4	0000—2400	
29			SUAN	KRE	126E02	38N46	A16	10	10.4				A	110		2000—1800	
30			LUANG PRABANG	LAO	102E08	19N51	A20	10	10.4				A	100	5	2300—1400	
31		S	JOHORE BAHRU	MLA	103E45	01N27	A20	50	17.6				A	150	5	0000—2400	
32			MIRI	MLA	113E59	04N23	A20	20	13.4				A	110	5	2200—1600	
33		S	TRONOH	MLA	100E59	04N23	A20	100	20.6				A	150	5	0000—2400	
34			IBADAN	NIG	03E55	07N32	C 9	50	17.4				A	115	4	0500—2300	
35			SURKHET	NPL	81E38	28N36	A20	100	20.4				A	120	4	2200—1900	
36			OBAN	NZL	168E08	46S52	A20	2	3.0				A	50	5	0000—2400	
37			CEBU CITY	PHL	123E53	10N18	C 9	10	10.4				A	130	3	2100—1600	
38			OLONGAPO CITY	PHL	120E16	14N49	C 9	1	0.4				A	132	3	2100—1600	
39		S	BRAGA	POR	08W10	41N37	A20	10	10.0				A	130	5	0000—2400	
40		S	COVILHA	POR	07W29	40N14	A20	1	0.0				A	130	5	0000—2400	
41		S	MIRANDELA	POR	07W10	41N31	A20	1	0.0				A	130	5	0000—2400	
42			SOBA	SDN	32E40	15N30	A20	200	26.4				A	323	3	0400—2200	24
43			SOKONE	SEN	16W22	13N53	C10	10	10.0				A	50	4	0600—2400	
44			MAKENI	SRL	12W00	08N52	C 9	20	13.0				A	40	2	0500—2400	
45			BANGKOK	THA	100E33	13N41	A20	10	10.0				A	35	2	0000—2400	
46			MAWAGGA	UGA	32E09	00N23	C 9	100	20.4				A	130	4	0300—2100	
47		S	ACHKHABAD	URS	58E23	37N57	A18	150	23.9				A	257	4	0000—2400	
48		S	ASTRAKHAN	URS	47E42	46N55	A16	50	19.1				A	257	4	0000—2400	
49		S	DAUGAVPILS	URS	26E35	55N50	A16	5	9.1				A	257	4	0000—2400	
50		S	IAKUTSK	URS	129E42	61N51	A18	500	29.1				A	257	5	0000—2400	
51			IASNYI	URS	128E00	53N20	A18	50	19.1				A	220	4	0000—2400	
52		S	KHABAROVSK	URS	135E10	48N33	A16	150	23.9				A	257	4	0000—2400	
53		S	NALTCHIK	URS	43E35	43N28	A18	25	16.1				A	257	4	0000—2400	
54		S	OCH	URS	72E48	41N27	A16	50	19.1				A	257	4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	576	S	PETROPAVLO KAM	URS	158E07 53N00	A16	50	19.1				A	257	4	0000—2400	
2	(6)	S	RIGA	URS	24E05 56N51	A16	500	31.7	70	180—240	11.7	B			0000—2400	
3		S	SREDNE KOLYMSK	URS	153E33 67N28	A16	50	19.1				A	257	5	0000—2400	
4		S	SVERDLOVSK	URS	60E36 56N50	A16	100	22.1				A	257	4	0000—2400	
5		S	TCHITA	URS	113E20 52N05	A16	500	29.1				A	257	5	0000—2400	
6			PRIJEDOR	YUG	16E43 44N59	D 9	2	3.0				A	50	4	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	585		RIYADH	ARS	46E23 24N30	D10	1200	33.0	300	80—160	15.0	B		4	0300—2300	24
2	(7)		KATHERINE NT	AUS	132E15 14S28	A20	10	12.1				A		2	1900—1400	
3			MONARTO SA	AUS	139E00 35S00	A20	10	12.1				A		2	1900—1400	
4			TOMERONG NSW	AUS	150E33 35S05	A20	1					B		4	1900—1400	
5		S	DORNBIRNLAUTER	AUT	09E42 47N27	D 9	100	20.4				A	116	4	0000—2400	
6			HALLSTATT	AUT	13E40 47N33	D 9	0.1	−10.0				A	15	6	0000—2400	
7			HIEFLAU	AUT	14E45 47N36	D 9	0.1	−10.0				A	15	6	0000—2400	
8		S	KLAGENFURT SEE	AUT	14E16 46N37	D 9	100	20.4				A	105	5	0000—2400	
9			MATREI	AUT	12E33 47N00	D 9	0.1	−10.0				A	15	6	0000—2400	
10		S	SALZBURG MOOS	AUT	13E02 47N46	D 9	30	14.8				A	23	5	0000—2400	
11		S	WIEN BISAMBERG	AUT	16E23 48N19	D 9	1200	32.9				A	265	4	0000—2400	
12			LANZHOU	CHN	103E50 36N02	A20	200	25.1				A	240	4	2000—1800	
13			QIQIHAR	CHN	123E58 47N18	A20	0.1	−9.6				A	60	4	2000—1800	
14			YATIYANTOTA	CLN	80E17 07N02	C10	20	13.4				A	130	7	0000—1800	
15			S M DI GALERIA	CVA	12E19 42N03	D 9	5	7.4				A	128	4	0630—1500	2/0110/3103
16			S M DI GALERIA	CVA	12E19 42N03	D 9	5	7.4				A	128		0530—1700	2/0104/3009
17			MADRID	E	03W52 40N28	D 9	500	29.1				A	264	4	0000—2400	19
18		S	MARSEILLE	F	05E18 43N16	D 9	10	10.0				A	50	5	0700—1500	
19		S	PARIS	F	02E25 48N53	D 9	10	10.0				A	65	3	0700—1500	
20			LIBREVILLE	GAB	09E28 00N25	C 9	100	22.1				A		4	0400—2400	
21			NAGPUR 1	IND	79E03 21N06	A20	300	26.9				A	255	3	0300—0900	25
22			NAGPUR 2	IND	79E03 21N06	A20	100	22.1				A	255	3	0900—0300	
23			SURABAJA	INS	112E45 07S14	A18	100	22.1				A	256	4	2200—1700	
24			KUSHIRO	J	144E25 42N59	A15	10	10.6				A	152	4	0000—2400	
25			DAEGU	KOR	128E35 35N50	C10	5	7.4				A	90	6	0000—2400	
26			PYONGYANG	KRE	125E48 39N21	D 9	20	14.0				B		6	2000—1800	
27			ROBERTSPORT	LBR	11W22 06N45	A20	10	10.4				A	90	5	0500—2400	
28			ULIASUTAI	MNG	96E50 47N40	A18	10	10.6				A	200	5	2200—1500	
29			ABAKALIKI	NIG	08E05 06N17	C 9	10	10.4				A	112	4	0500—2300	
30			MAHIA	NZL	177E51 39S05	A20	10	10.6				A	150	3	0000—2400	
31			ISLAMABAD	PAK	72E30 33N51	A20	1000	32.1				A	258	3	0000—2000	
32			VIGAN ILOCO SO	PHL	120E22 17N34	C 9	1	0.4				A	128	3	2100—1600	
33		S	C BEECHEY	PNG	151E12 05S58	B10	10	10.4				A	80	6	1900—1400	
34		S	GOROKA	PNG	145E23 06S05	B10	10	10.4				A	80	5	1900—1400	
35		S	KEREMA	PNG	145E46 07S59	B10	2	3.0				A	30	3	1900—1400	
36		S	LORENGAU	PNG	147E16 02S02	B10	10	10.4				A	80	3	1900—1400	
37		S	PT MORESBY	PNG	147E12 09S26	B10	10	10.4				A	80	3	1900—1400	
38		S	WABAG	PNG	143E44 05S19	B10	10	10.4				A	80	5	1900—1400	
39			PAGO PAGO	SMA	170W47 14S22	C10	50	17.0				A	118	2	0000—2400	
40			CHUMPHON	THA	99E10 10N29	A20	10	10.4				A	127	3	0000—2400	
41			PRACHINBURI	THA	101E25 14N05	A20	20	13.4				A	117	3	0000—2400	
42			GAFSA	TUN	08E48 34N25	D 9	350	27.5				A	265	6	0000—2400	24
43			PERM	URS	56E18 57N59	A16	30	16.9				A	257	4	0000—2400	
44			SVOBODNYI	URS	128E00 51N30	A16	500	31.7	50	120—220	14.7	B		4	0000—2400	
45			NHATRANG	VTN	109E11 12N07	C10	50	20.0	270			B		4	2100—1600	
46			CHUMBUNI	ZAN	39E12 06S09	C 9	50	17.4				A	128	4	0300—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	594		MAIMANA	AFG	64E45 35N55	C 9	10	10.0				A	60	4	0100—2000	
2	(8)	S	DOOEN VIC	AUS	142E15 36S38	A20	50	17.6				A	201	2	1900—1400	
3		S	SALE VIC	AUS	147E06 38S11	A20	10	10.6				A	152	2	1900—1400	
4			TUTONG	BRU	114E38 04N48	A20	200	26.0	155			B		5	2200—1500	
5			PLEVEN	BUL	24E35 43N24	A18	250	26.0	185			B		4	0000—2400	
6		S	HEZE	CHN	115E27 35N15	A20	10	10.4				A	120	4	2000—1800	
7			JILONG	CHN	121E42 25N12	A20	1	0.4				A	120	5	2000—1800	
8		S	JIMO	CHN	120E28 36N23	A20	20	13.4				A	120	4	2000—1800	
9		S	JINAN	CHN	116E57 36N43	A20	100	22.1				A	240	4	2000—1800	
10		S	KENLI	CHN	118E35 37N38	A20	20	13.4				A	120	4	2000—1800	
11			LHASA	CHN	90E59 29N30	A20	300	27.0	330	180—240	22.0	B		5	2000—1800	
12			WENCHENG	CHN	120E06 27N47	A20	200	26.0	164	310— 10	2.0	B		4	2000—1800	
13		S	WULIAN	CHN	119E12 35N45	A20	10	10.4				A	120	4	2000—1800	
14		S	YANTAI	CHN	121E18 37N36	A20	10	10.4				A	120	4	2000—1800	
15		S	ZAOZHUANG	CHN	117E34 34N52	A20	10	10.4				A	120	4	2000—1800	
16			WEERAKETIYA	CLN	80E48 06N10	C10	50	20.0	250			B		5	0000—1800	
17		S	FRANKFURT MAIN	D	08E52 50N04	D 9	800	33.0	180	10— 20	18.0	B		4	0000—2400	
18		S	FRANKFURT MAIN	D	08E52 50N04	D 9	800	33.0	310	110—130	18.0	B				
19		S	HOHER MEISSNER	D	09E51 51N12	D 9	100	24.0	200	0— 50	14.0	B		4	0000—2400	
20			GHINNIR	ETH	40E15 06N30	C 9	100	20.4				A	126	3	0400—2300	
21			BOLZANO	I	11E17 46N24	D 9	10	10.4				A	124	5	0400—1700	7
22			REGGIO CALABR	I	15E39 38N06	D 9	10	10.4				A	124	5	0400—1700	7
23			VENEZIA	I	12E18 45N29	D 9	20	13.4				A	127	4	0400—1700	7
24			CALCUTTA	IND	88E21 23N01	A20	1000	30.6				A	152	3	0300—0900	25
25			MADRAS 1	IND	80E17 13N04	A20	300	26.9				A	255	3	0300—1000	25
26			MADRAS 2	IND	80E17 13N04	A20	100	23.0	0	150—210	2.0	B		3	1000—0300	
27			RAJKOT	IND	70E41 22N22	A20	300	26.9				A	255	3	0300—0900	25
28			ZAHEDAN	IRN	60E53 29N28	A20	100	20.0				A	60	4	0100—2200	
29			TOKYO	J	139E25 36N05	A15	300	26.9				A	272	4	0000—2400	
30			AJLUN	JOR	35E47 32N25	C 9	100	22.1				A	270	6	0300—2300	
31			YEONGJU	KOR	128E36 36N49	C10	10	10.4				A	120	6	0000—2400	
32			UNGGI	KRE	130E21 42N22	A16	20	13.4				A	105		2000—1800	
33			KAJANG	MLA	101E46 02N59	A20	200	23.6				A	175	5	0000—2400	
34			UNDERHAN	MNG	102E55 46N10	A18	10	10.6				A	200	5	2200—1500	
35			OUJDA	MRC	01W51 34N40	C 9	600	28.4				A	202	4	0500—2400	
36			LILONGWE	MWI	33E45 14S00	A20	50	17.4				A	92	3	0200—2300	
37			JAJI	NIG	07E23 10N50	C 9	250	24.6				A	155	4	0400—2400	
38			KHORIXAS	NMB	14E56 20S22	A20	100	23.0	240			B		3	0000—2400	
39			TIMARU	NZL	171E16 44S21	A20	5	7.0				A	53	4	0000—2400	
40			MALAYBALAY BUK	PHL	125E07 08N08	C 9	2.5	4.4				A	126	3	2100—1600	
41			MALOLOS BUL	PHL	120E57 14N41	D 9	10	13.0	155	65—245	3.0	B		3	2100—1600	
42		S	BRAGA 2	POR	08W10 41N37	A20	10	10.4				A	90	5	0000—2400	
43		S	CHAVES 2	POR	07W25 41N45	A20	1	0.4				A	90	5	0000—2400	
44		S	EVORA 2	POR	07W54 38N32	A20	1	0.4				A	90	3	0000—2400	
45		S	MIRANDA DOURO2	POR	06W16 41N29	A20	1	0.4				A	90	6	0000—2400	
46		S	MONTEMORVELHO2	POR	08W38 40N12	A20	100	20.6				A	180	5	0000—2400	
47		S	PORTALEGRE 2	POR	07W25 39N18	A20	1	0.4				A	90	5	0000—2400	
48			LULEAA PITEAA	S	21E35 65N18	D 9	600	30.0				A	250	5	0000—2400	
49			KHON KAEN	THA	102E50 16N25	A20	10	10.4				A	127	3	0000—2400	
50			MALATYA	TUR	38E00 38N30	D 9	300	28.0	260	295—315	15.0	B		4	0200—2300	
51			MALATYA	TUR	38E00 38N30	D 9	300	28.0	100	180—210	10.0	B				
52			MALATYA	TUR	38E00 38N30	D 9	300	25.0	0	45— 55	10.0	B				
53			KIEV	UKR	30E49 50N30	A16	300	26.9				A	220	4	0200—1500	22
54		S	ENISEISK	URS	92E05 58N21	A16	150	23.9				A	257	4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

594 KHZ (8)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	594	S	IJEVSK	URS	53E14 56N49	C10	150	26.7	120	260—340	16.7	B		4	0000—2400	
2	(8)		KIROV	URS	49E41 58N36	A18	150	23.9				A	257	4	0200—1000	
3		S	ORDJONIKIDZE	URS	44E21 43N01	A16	25	16.1				A	257	4	0000—2400	
4		S	SURGUT	URS	73E30 61N15	A18	500	29.1				A	257	4	0000—2400	
5		S	USTKAMENOGORSK	URS	82E36 49N55	A18	50	19.1				A	257	4	0000—2400	
6			CERKNO	YUG	13E59 46N08	D 9	1	0.0				A	60	8	0800—1500	
7			D STUBICA	YUG	15E57 45N58	D 9	1	0.4				A	50	4	0800—1500	7
8			DJAKOVO	YUG	18E26 45N19	D 9	1	0.4				A	50	5	0800—1500	7
9			T KORENICA	YUG	15E40 44N45	D 9	1	0.4				A	50	8	0800—1500	7
10			MWINILUNGA	ZMB	24E27 11S43	A20	10	10.4				A	112	4	0200—2100	

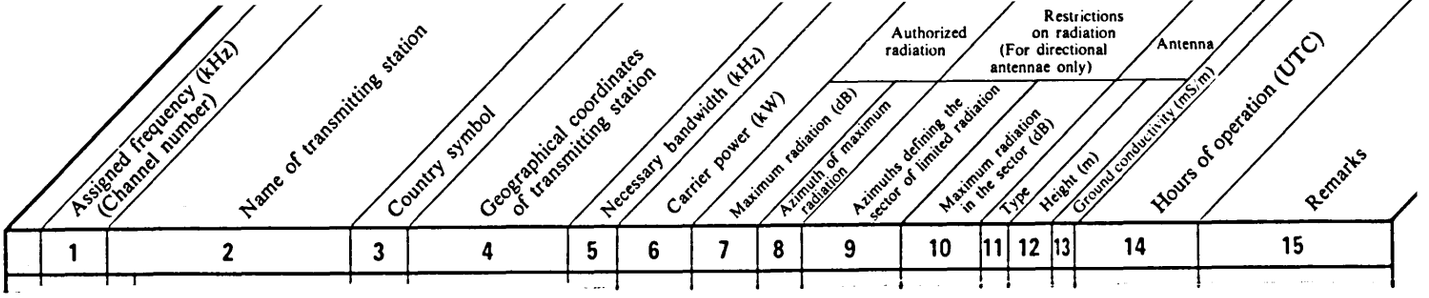
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	603		BURAIDA	ARS	44E00 26N20	C 9	20	13.4				A	120	7	0400—1400	24
2	(9)	S	DALWALLINU WA	AUS	116E36 30S17	A20	10	12.1				A	213	2	2100—1600	
3			HOBART TAS	AUS	147E30 42S55	A20	10	10.6				A	201	5	2000—1500	
4		S	PT HEDLAND WA	AUS	118E40 20S24	A20	50	17.0				A	41	3	2100—1600	
5			AIHUI	CHN	127E20 50N18	A20	0.1	−9.6				A	50	4	2000—1800	
6			DANDONG	CHN	124E22 40N07	A20	0.5	−3.0				A	80	4	2000—1800	
7		S	DEQING	CHN	111E46 23N09	A20	20	13.4				A	120	4	2000—1800	
8		S	JIANGMEN	CHN	113E07 22N32	A20	30	15.2				A	120	4	2000—1800	
9		S	MEI XIAN	CHN	116E00 24N20	A20	100	22.1				A	240	4	2000—1800	
10			WUHAN	CHN	114E20 30N36	A20	10	10.4				A	120	4	2000—1800	
11		S	YA XIAN	CHN	109E28 18N17	A20	50	17.4				A	120	4	2000—1800	
12			YINING SHI	CHN	81E28 43N55	A20	0.1	−9.6				A	50	4	2000—1800	
13			WELIMADA	CLN	80E57 06N50	C10	50	17.6				A	140	7	0000—1800	
14			BRAZZAVILLE	COG	15E18 04S16	A20	100	22.1				A	249	5	0000—2400	
15			NICOSIA	CYP	33E23 35N09	C 9	600	28.2				A	100	4	0000—2400	18/ROU
16			KOENIGSWUSTERH	DDR	13E37 52N18	D 9	30	15.2				A	85	4	0000—2400	
17			RAS BANAS	EGY	35E45 23N55	D 9	1000	36.0	70	150—170	20.0	B		3	0400—2400	24
18			LYON	F	04E57 45N52	D 9	300	26.9				A	220	3	0000—2400	
19			MARIEHAMN	FNL	20E08 60N13	D 9	1	0.0				A	100	3	0000—2400	42/MARIEHAMN 1
20			MARIEHAMN 1	FNL	19E51 60N07	D 9	300	26.8	20	160—240	20.8	B		3	0000—2400	41/MARIEHAMN
21			NEWCASTLE	G	01W34 54N56	C10	2	3.0				A	46	3	0000—2400	
22			KANKAN	GUI	09W17 10N20	C 9	100	20.4				A	132	4	0000—2400	
23			PALERMO	I	13E21 38N10	D 9	20	13.6				A	152	4	0400—1700	26/F
24			POTENZA	I	15E48 40N38	D 9	20	13.4				A	128	5	0400—1700	26/F
25			AJMER	IND	74E42 26N27	A20	200	25.1				A	250	4	0000—2400	
26			LUCKNOW	IND	80E52 26N45	A20	300	26.9				A	235	3	0300—0900	25
27			RAIPUR	IND	81E41 21N15	A20	300	26.9				A	250	3	0300—0900	25
28			ZABOL	IRN	61E29 31N02	A20	20	13.4				A	125	2	0100—2200	
29			NAYORO	J	142E28 44N22	A15	1	0.4				A	67	5	0000—2400	
30			OKAYAMA	J	133E54 34N37	A15	5	7.4				A	110	4	0000—2400	
31			NAM YANG	KOR	126E45 37N15	C10	500	29.0	350	140—200	20.0	B		5	0000—2400	
32			FUNCHAL 1	MDR	16W55 32N43	A20	10	10.4				A	90	4	0000—2400	
33			BATU PAHAT	MLA	102E55 01N51	A20	10	10.0				A	61	5	2200—1700	
34			TUARAN	MLA	116E11 06N11	A20	10	10.6				A	150	5	0000—2400	
35		S	BAIANHONGOR	MNG	100E40 46N10	A18	25	14.6				A	200	5	2200—1500	
36		S	MUREN	MNG	100E10 49N30	A18	25	14.6				A	200	5	2200—1500	
37		S	ULAN GOM	MNG	92E00 50N00	A18	25	14.6				A	200	5	2200—1500	
38			ABAFON	NIG	03E31 06N41	C 9	50	21.0	285			B		4	0400—2300	
39		S	AUCKLAND	NZL	174E38 36S51	A20	5	7.6				A	150	3	0000—2400	
40		S	PAENGAROA	NZL	176E25 37S49	A20	5	7.6				A	150	3	0000—2400	
41			ZAMBOANGA CITY	PHL	122E04 06N56	C 9	10	10.4				A	124	3	2100—1600	
42		S	AITAPE	PNG	142E20 03S08	D10	10	10.4				A	80	3	1900—1400	
43		S	BUIN	PNG	155E42 06S47	D10	10	10.4				A	80	5	1900—1400	
44		S	MT HAGEN	PNG	144E18 05S50	D10	10	10.4				A	80	5	1900—1400	
45		S	SOHANO	PNG	153E41 05S26	D10	2	3.0				A	30	5	1900—1400	
46		S	TALASEA	PNG	150E03 05S19	D10	10	10.4				A	80	6	1900—1400	
47		S	WANIGELA	PNG	149E11 09S51	D10	10	10.4				A	80	3	1900—1400	
48			S ANDRE 1	REU	55E40 20S55	A20	300	26.9				A	220	5	0000—2400	
49		S	BOTOSANI	ROU	26E39 47N44	C 9	50	17.4	105	275—295	15.0	B		5	0000—2400	
50		S	BUCURESTI	ROU	26E06 44N28	D 9	30	16.9				A	240	8	0000—2400	18/CYP
51		S	ORADEA	ROU	21E58 47N03	D 9	50	17.4				A	120	4	0000—2400	
52		S	TURNU SEVERIN	ROU	22E42 44N36	D 9	15	11.8				A	40	5	0300—2300	

ARCHIVES U.I.T. GENÈVE

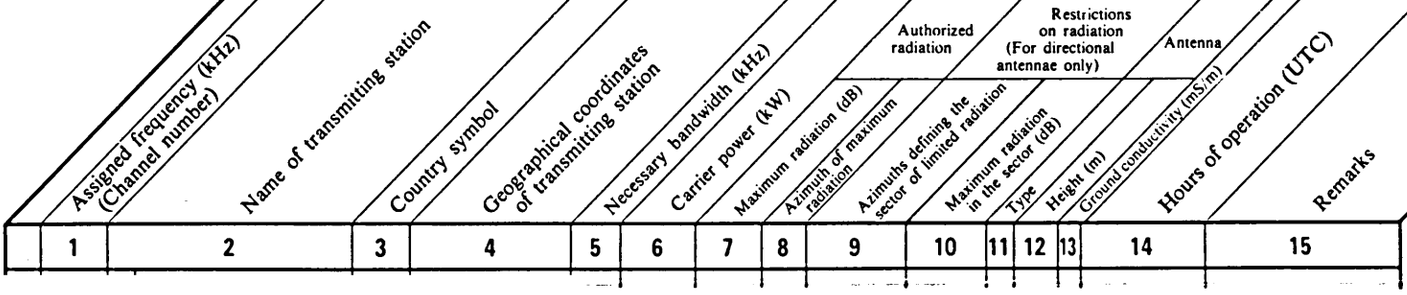
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

603 KHZ (9)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	603	RUMBEK	SDN	29E38 06N48	A20	50	20.4				A	313	3	0600—1600	24
2	(9)	BELET WEYN	SOM	45E10 04N40	A18	25	14.4				A	120	4	0300—2100	
3		DETVA	TCH	19E24 48N35	A20	1	0.0				A	60	5	0000—2400	
4		KOSICE MESTO	TCH	21E15 48N43	A20	1	0.0				A	60	5	0000—2400	
5		PRAHA MESTO	TCH	14E25 50N05	A20	1	0.0				A	60	5	0000—2400	
6		VSETIN	TCH	18E00 49N21	A20	1	0.0				A	60	5	0000—2400	
7		DODOMA	TGK	35E30 06S10	C 9	100	20.4				A	125	4	0300—2100	
8		BANGKOK	THA	100E31 13N48	A20	20	13.4				A	125	2	0000—2400	
9		SOUSSE	TUN	10E40 35N50	D 9	10	12.1				A		4	0000—2400	24
10		ANDIJAN	URS	72E27 40N47	A18	50	19.1				A	220	4	0000—2400	
11		SPASSK DALNII	URS	132E47 44N38	A18	10	12.1				A	220	4	0000—2400	
12		DANANG	VTN	108E17 16N04	C10	50	20.0	225			B		4	2100—1600	
13		HIZYAZ	YEM	44E11 15N22	C 9	300	25.2				A		3	0300—1400	24
14		GEMENA	ZAI	19E46 03N17	C 9	10	10.0				A	60	8	0000—2400	
15		GOMA	ZAI	29E14 01S41	C 9	10	10.0				A	60	8	0000—2400	
16		TSHIKAPA	ZAI	20E48 06S28	C 9	10	10.0				A	60	8	0000—2400	
17		MONGU	ZMB	23E08 15S15	A20	50	17.6				A	174	4	0200—2100	



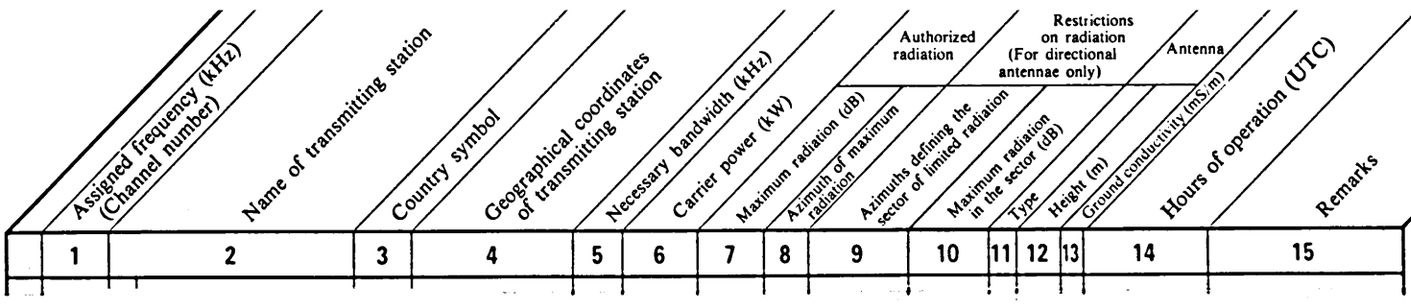
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	612	LUANDA	AGL	13E49 08S48	A20	5	7.4				A	120	3	0000—2400	
2	(10)	GURIAT	ARS	37E25 31N25	C 9	2000	41.0	328	20—270	25.0	B		4	0300—1600	24 27
3		BRISBANE QLD	AUS	153E01 27S19	A20	50	17.6				A	198	3	1900—1400	
4		NORTHAM WA	AUS	116E40 31S39	A20	1	0.4				A	86	4	2100—1600	
5	S	JIAMUSI	CHN	130E30 46N40	A20	50	17.4				A	120	4	2000—1800	
6	S	JIXI	CHN	130E58 45N18	A20	50	18.0	320	130—190	11.0	B		4	2000—1800	
7	S	MOHE	CHN	122E10 53N21	A20	50	17.4				A	120	4	2000—1800	
8	S	PUTIAN	CHN	119E01 25N25	A20	10	10.4				A	120	4	2000—1800	
9	S	RAOHE	CHN	134E00 46N40	A20	50	17.4				A	120	4	2000—1800	
10	S	SANMING	CHN	117E36 26N14	A20	100	23.0	220	10— 70	16.0	B		4	2000—1800	
11	S	SONGZHENG	CHN	118E45 27N32	A20	10	10.4				A	120	4	2000—1800	
12	S	WUPING	CHN	116E06 25N05	A20	10	10.4				A	120	4	2000—1800	
13	S	ZHANGZHOU	CHN	117E40 24N30	A20	50	17.4				A	120	4	2000—1800	
14		DEBRA MARKOS	ETH	37E44 10N20	C 9	10	10.4				A	122	3	0400—1500	
15		AGANA	GUM	144E45 13N27	C10	10	10.4				A	98	3	0000—2400	
16		BANGALORE	IND	77E38 12N58	C 9	300	27.0	195	300—340	19.0	B		3	0000—2400	
17		IMPHAL	IND	93E58 24N44	A20	300	26.9				A	245	3	0300—0900	25
18		SRINAGAR	IND	74E49 34N04	A20	300	28.2				A	275	3	0300—0900	25
19		ATHLONE	IRL	07W53 53N25	A20	200	23.0				A	100	4	0000—2400	
20		QASR SHIRIN	IRN	45E35 34N31	A20	400	30.0	270	40	6.0	B		3	0200—1600	
21		QASR SHIRIN	IRN	45E35 34N31	A20	200	27.0	270	40	3.0	B		3	1600—2200	
22		EZYON	ISR	34E57 29N35	D 9	30	20.0	200			B		1	0000—2400	33
23		FUKUOKA	J	130E27 33N32	A15	100	20.6				A	157	4	0000—2400	
24		KALLIA	JOR	35E30 31N46	A20	20	13.6				A	200	5	0300—2300	24
25		NAIROBI	KEN	36E55 01S35	C 9	100	20.4				A	122	4	0000—2400	
26		CHONMA	KRE	125E02 40N03	A16	100	23.0				B		7	2000—1800	
27		KANGAR	MLA	100E13 06N29	A20	10	10.0				A	61	5	2200—1700	
28		SEBAA AIOUN	MRC	05W23 33N53	A20	300	26.9				A	220	4	0500—0300	24
29		ABA	NIG	07E22 05N07	C 9	50	17.4				A	80	4	0500—2300	
30		GWADAR	PAK	62E30 25N10	A20	1000	34.0	240	0	24.0	B		4	0200—1300	
31		GWADAR	PAK	62E30 25N10	A20	500	31.0	240	0	21.0	B		4	1300—0200	
32		BAGUIO CITY	PHL	120E35 16N24	C 9	10	10.4				A	122	3	2100—1600	
33		CEBU CITY	PHL	123E51 10N15	C 9	5	7.4				A	122	3	2100—1600	
34		BAKEL	SEN	12W35 14N58	C 9	20	13.4				A	100	4	0600—2400	
35		BONGOR	TCD	15E22 10N17	C 9	30	16.9				A			0400—2300	
36		LOPBURI	THA	100E54 14N53	A20	20	13.4				A	114	5	0000—2400	
37	S	BAKU	URS	49E45 40N24	A16	25	19.0	330	160—220	7.0	B		4	0000—2400	
38	S	ELISTA	URS	44E15 46N19	A18	50	19.1				A	220	4	0000—2400	
39	S	FRUNZE	URS	74E30 42N54	C10	300	26.9				A	220	4	0000—2400	
40	S	KAVATCHA	URS	169E30 60N20	A18	50	19.1				A	220	5	0000—2400	
41	S	KRASNOGORSKMOS	URS	37E54 56N05	A16	100	22.1				A	220	4	0000—2400	
42	S	MURMANSK	URS	32E46 68N48	A16	30	16.9				A	220	5	0000—2400	
43	S	PAVLODAR	URS	76E57 52N18	A18	150	23.9				A	220	4	0000—2400	
44	S	PETROZAVODSK	URS	34E20 61N48	A16	100	22.1				A	220	4	0000—2400	
45	S	TARTU	URS	26E35 58N23	A16	100	22.1				A	220	4	0000—2400	
46	S	TOBOLSK	URS	68E17 58N12	A18	150	23.9				A	220	4	0000—2400	
47	S	VILNIUS	URS	25E18 54N40	A16	25	16.1				A	220	4	0200—2200	
48		SAIGON	VTN	106E38 10N51	A10	20	13.4				A	85	3	2200—1600	
49	S	BIHAC	YUG	15E53 44N48	D 9	100	20.4				A	125	4	0000—2400	
50	S	SARAJEVO	YUG	18E09 44N01	D 9	600	29.9				A	250	4	0000—2400	
51	S	TREBINJE	YUG	18E23 42N44	D 9	100	20.4				A	125	5	0000—2400	



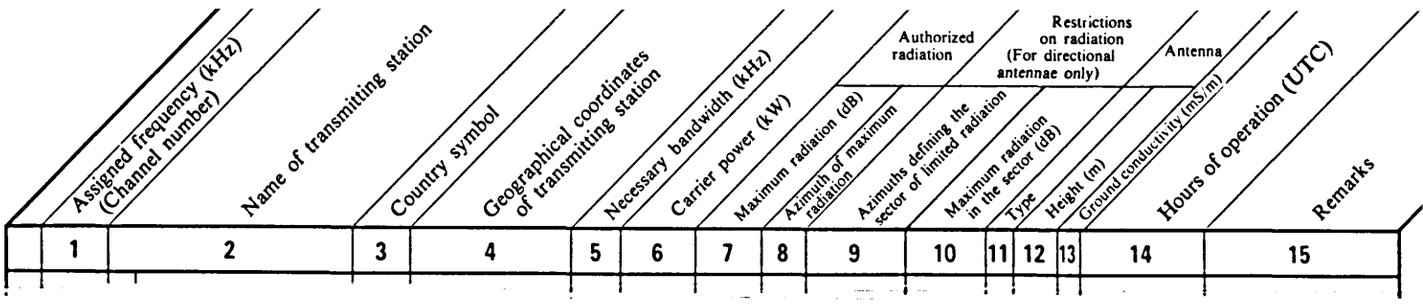
621 KHZ (11)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	621		GHAZNI	AFG	68E20 33N32	C 9	10	10.0				A	60	4	0100—2000	
2	(11)		MELBOURNE VIC	AUS	144E47 37S43	A20	50	19.1				A	216	2	2000—1500	
3			BRUXELLES WAVR	BEL	04E35 50N45	D 9	600	29.9				A	245	4	0000—2400	
4			ORAPA	BOT	25E20 21S15	A20	50	17.4				A	100	4	0300—2100	
5		S	AIHUI	CHN	127E20 50N18	A20	50	17.4				A	120	4	2000—1800	
6		S	DARLA	CHN	99E33 33N42	A20	10	10.4				A	120	5	2000—1800	
7		S	ERGUNE ZUOQI	CHN	121E30 50N50	A20	20	13.4				A	120	4	2000—1800	
8		S	GANGCA	CHN	100E10 37N20	A20	20	13.4				A	120	5	2000—1800	
9		S	HARBIN	CHN	126E52 45N49	A20	100	22.1				A	240	4	2000—1800	
10		S	MANZHOULI	CHN	117E30 49N28	A20	50	17.4				A	120	4	2000—1800	
11		S	QIQIHAR	CHN	123E58 47N18	A20	20	13.4				A	120	4	2000—1800	
12		S	TONGREN 1	CHN	102E01 35N31	A20	10	10.4				A	120	5	2000—1800	
13			DIYAGAMA	CLN	79E58 06N50	C10	20	13.4				A	100	5	0000—1800	
14			S CRUZ TENERIF	CNR	16W16 28N28	A20	200	23.4				A	110	4	0000—2400	
15			BATRA	EGY	31E27 31N09	D 9	1000	36.0	110	320—330	26.0	B		3	0000—2400	24
16			HONG KONG 6	HKG	114E02 22N17	A20	10	10.4				A	91	5	0000—2400	
17		S	C SPULICO	I	16E35 39N59	D 9	50	21.0	40	115—145	7.0	B		4	0000—2400	
18		S	C SPULICO	I	16E35 39N59	D 9	50	21.0	220	310—320	7.0	B				
19		S	CITTA CASTELLO	I	12E16 43N27	D 9	25	14.0	145	320—330	4.0	B		5	0000—2400	
20		S	S REMO	I	07E47 43N49	D 9	2	3.4				A	75	5	0000—2400	
21			JAIPUR	IND	75E50 26N54	A20	300	26.9				A	245	4	0300—0900	25
22			PATNA	IND	85E13 25N37	A20	200	26.0	130	35— 45	16.0	B		3	0000—2400	
23			PATNA	IND	85E13 25N37	A20	200	26.0		205—235	17.0	B				
24			BIRJAND	IRN	59E12 32N52	A20	20	13.4				A	120	3	0200—2100	
25			ASAHIKAWA	J	142E25 43N46	A15	3	6.8	20			B		5	0000—2400	
26			IIDA	J	137E51 35N30	A15	1	0.4				A	102	5	0000—2400	
27			KYOTO	J	135E45 35N01	A15	1	0.0				A	52	5	0000—2400	
28			NOBEOKA	J	131E41 32N34	A15	1	0.4				A	102	5	0000—2400	
29			HWANG JI	KOR	128E59 37N10	C10	1	0.4				A	100	6	0000—2400	
30			SUGWIPO	KOR	126E34 33N14	C10	10	10.0				A	60	4	0000—2400	
31			YEONGDONG	KOR	127E46 36N10	C10	1	0.0				A	60	6	0000—2400	
32			SARIWON	KRE	125E45 38N25	A16	1000	32.0				B		6	2000—1000	
33			SARIWON	KRE	125E45 38N25	A16	500	29.0				B		6	1000—1800	
34			SEGAMAT	MLA	102E52 02N29	A20	100	20.6				A	150	5	2200—1700	
35			SIBU	MLA	111E49 02N18	A20	20	13.4				A	135	5	2200—1600	
36			ENUGU 9TH MILE	NIG	07E21 06N27	C 9	50	19.1				A	242	4	0500—2300	
37			HAAST	NZL	169E02 43S49	A20	2	3.0				A	50	6	0000—2400	
38			DAVAO CITY	PHL	125E35 07N03	C 9	5	7.4				A	120	3	2100—1600	
39			NAGA CITY	PHL	123E11 13N37	C 9	5	7.4				A	120	3	2100—1600	
40			TUGUEGARAO CAG	PHL	121E45 17N36	C 9	1	0.4				A	120	3	2100—1600	
41			RASHAD	SDN	31E31 11N39	A20	100	23.4				A	304	4	0600—1600	24
42			ZVOLEN	TCH	19E17 48N35	A20	1	0.0				A	60	5	0000—2400	
43			MBEYA	TGK	33E30 09S00	C 9	50	17.4				A	121	4	0300—2100	
44			KHON KAEN	THA	102E49 16N18	A20	100	23.0	70			B		3	0000—2400	
45			FUNAFUTI	TUV	179E12 08S30	A20	2	3.0				A	31	1	1800—1000	
46			KEMEROVO	URS	86E00 55N22	C10	150	26.7	310	100—150	18.7	B		4	0000—2400	
47			MAKHATCHKALA	URS	47E12 42N50	A16	50	21.7	270	50—120	11.7	B		4	0000—2400	
48			UKHTA	URS	53E07 63N06	A16	150	23.9				A	220	4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	630		HERAT	AFG	62E12 34N20	C 9	20	13.0				A	60	4	0100—2000	
2	(12)		ALBANY WA	AUS	117E49 35S00	A20	0.4	—4.0				A	37	3	2100—1600	
3			QUEENSTOWN TAS	AUS	145E31 42S03	A20	0.4	—4.0				A	53	5	1900—1400	
4		S	ROCKHAMPTON QL	AUS	150E27 23S27	A20	10	10.4				A	128	3	1900—1400	
5		S	TOWNSVILLE QLD	AUS	147E20 19S31	A20	50	19.1				A	198	4	1900—1400	
6			BAD ISCHL	AUT	13E38 47N42	D 9	0.1	—10.0				A	15	6	0000—2400	
7			BISCHOFSHOFEN	AUT	13E13 47N25	D 9	0.1	—10.0				A	15	6	0000—2400	
8		S	GRAZ DOBL	AUT	15E23 46N57	D 9	100	20.6				A	156	4	0700—1500	2/0110/3103
9		S	GRAZ DOBL	AUT	15E23 46N57	D 9	100	20.6				A	156		0500—1700	2/0104/3009
10		S	GRAZ DOBL	AUT	15E23 46N57	D 9	50	17.6				A	156	4	1500—0700	2/0110/3103
11		S	GRAZ DOBL	AUT	15E23 46N57	D 9	50	17.6				A	156		1700—0500	2/0104/3009
12		S	INNSBRUCK ALDR	AUT	11E27 47N15	D 9	30	15.4				A	151	6	0700—1500	2/0110/3103
13		S	INNSBRUCK ALDR	AUT	11E27 47N15	D 9	30	15.4				A	151		0500—1700	2/0104/3009
14		S	INNSBRUCK ALDR	AUT	11E27 47N15	D 9	30	15.4				A	151	6	1500—0700	2/0110/3103
15		S	INNSBRUCK ALDR	AUT	11E27 47N15	D 9	30	15.4				A	151		1700—0500	2/0104/3009
16		S	LIENZ OSTTIROL	AUT	12E47 46N49	D 9	30	15.2				A	104	7	0700—1500	2/0110/3103
17		S	LIENZ OSTTIROL	AUT	12E47 46N49	D 9	30	15.2				A	104		0500—1700	2/0104/3009
18		S	LIENZ OSTTIROL	AUT	12E47 46N49	D 9	10	10.4				A	104	7	1500—0700	2/0110/3103
19		S	LIENZ OSTTIROL	AUT	12E47 46N49	D 9	10	10.4				A	104		1700—0500	2/0104/3009
20			MATREI	AUT	12E33 47N00	D 9	0.1	—10.0				A	15	6	0000—2400	
21			RADENTHEIN	AUT	13E40 46N49	D 9	0.1	—10.0				A	15	6	0000—2400	
22			DACCA	BGD	90E26 23N43	A20	100	20.4				A	122	3	0000—1800	
23		S	ANDA SHI	CHN	125E20 46N30	A20	20	13.4				A	120	4	2000—1800	
24		S	ANSHUN SHI	CHN	105E55 26N15	A20	10	10.4				A	120	5	2000—1800	
25		S	BAIRIN ZUOQI	CHN	119E12 43N58	A20	20	13.4				A	120	4	2000—1800	
26		S	BARKAM	CHN	102E27 31N42	A20	5	7.4				A	120	4	2000—1800	
27		S	BENXI SHI	CHN	123E38 41N10	A20	10	10.4				A	120	4	2000—1800	
28		S	BIJIE	CHN	105E16 27N18	A20	5	7.4				A	120	5	2000—1800	
29		S	BIN XIAN	CHN	118E02 37N22	A20	5	7.4				A	120	4	2000—1800	
30		S	CHANGZHI SHI	CHN	113E06 36N10	A20	20	13.4				A	120	4	2000—1800	
31		S	CHEN XIAN	CHN	113E02 25N48	A20	20	13.4				A	120	4	2000—1800	
32		S	CHIFENG SHI	CHN	118E52 42N18	A20	30	15.2				A	120	4	2000—1800	
33		S	CHONGQING	CHN	106E30 29N45	A20	20	13.4				A	120	4	2000—1800	
34		S	DANBA	CHN	101E53 30N53	A20	2	3.4				A	120	4	2000—1800	
35		S	DANGSHAN	CHN	116E21 34N26	A20	5	7.4				A	120	4	2000—1800	
36		S	DATONG SHI	CHN	113E10 40N05	A20	20	13.4				A	120	4	2000—1800	
37		S	DEGE	CHN	98E37 31N46	A20	5	7.4				A	120	4	2000—1800	
38		S	DEJIANG	CHN	108E08 28N10	A20	20	13.4				A	120	5	2000—1800	
39		S	DINGXI	CHN	104E30 35N20	A20	5	7.4				A	120	4	2000—1800	
40		S	DUKOU	CHN	101E43 26N35	A20	5	7.4				A	120	4	2000—1800	
41		S	ENPING	CHN	112E18 22N11	A20	10	10.4				A	120	4	2000—1800	
42		S	FUJIN	CHN	132E01 47N20	A20	50	17.4				A	120	4	2000—1800	
43		S	FUYANG	CHN	115E51 32N54	A20	5	7.4				A	120	4	2000—1800	
44		S	GANZHOU	CHN	114E54 25N48	A20	20	13.4				A	120	4	2000—1800	
45		S	GAOXIONG SHI	CHN	120E18 22N36	A20	50	17.4				A	120	5	2000—1800	
46		S	GUANGCHANG	CHN	116E16 26N52	A20	5	7.4				A	120	4	2000—1800	
47		S	GUANGZHOU	CHN	113E14 23N11	A20	100	22.1				A	240	4	2000—1800	
48		S	HANGZHOU	CHN	120E08 30N16	A20	50	17.4				A	120	4	2000—1800	
49		S	HUANREN	CHN	125E21 41N15	A20	5	7.4				A	120	4	2000—1800	
50		S	HULIN	CHN	132E58 45N45	A20	20	13.4				A	120	4	2000—1800	
51		S	HUZHONG	CHN	123E32 52N05	A20	20	13.4				A	120	4	2000—1800	
52		S	JINGTAI	CHN	104E08 37N06	A20	10	10.4				A	120	4	2000—1800	
53		S	JINING SHI	CHN	116E35 35N28	A20	20	13.4				A	120	4	2000—1800	
54		S	JISHOU	CHN	109E43 28N19	A20	20	13.4				A	120	4	2000—1800	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	630	S	LENGSHUIJIANG	CHN	111E23 27N44	A20	10	10.4				A	120	4	2000–1800	
2	(12)	S	LIAN XIAN	CHN	112E23 24N47	A20	20	13.4				A	120	4	2000–1800	
3		S	LINYI	CHN	118E20 35N04	A20	10	10.4				A	120	4	2000–1800	
4		S	LISHUI	CHN	119E54 28N28	A20	10	10.4				A	120	4	2000–1800	
5		S	LONGCHUAN	CHN	115E11 24N04	A20	20	13.4				A	120	4	2000–1800	
6		S	LUAN	CHN	116E30 31N45	A20	10	10.4				A	120	4	2000–1800	
7		S	LUODIAN	CHN	106E40 25N29	A20	20	13.4				A	120	5	2000–1800	
8		S	MIANYANG	CHN	113E13 30N11	A20	10	10.4				A	120	4	2000–1800	
9		S	MULAN	CHN	128E02 45N57	A20	10	10.4				A	120	4	2000–1800	
10		S	NANCHANG SHI	CHN	115E54 28N42	A20	50	17.4				A	120	4	2000–1800	
11		S	NEIJIANG SHI	CHN	105E15 29N39	A20	2	3.4				A	120	4	2000–1800	
12		S	NENJIANG	CHN	125E02 49N05	A20	20	13.4				A	120	4	2000–1800	
13		S	PINGLIANG	CHN	106E38 35N18	A20	5	7.4				A	120	4	2000–1800	
14		S	PINGXIANG 2	CHN	113E52 27N37	A20	10	10.4				A	120	4	2000–1800	
15		S	QICHUN	CHN	115E20 30N04	A20	10	10.4				A	120	4	2000–1800	
16		S	QINGLONG	CHN	105E13 25N51	A20	5	7.4				A	120	5	2000–1800	
17		S	RONGJIANG	CHN	108E31 25N55	A20	10	10.4				A	120	5	2000–1800	
18		S	SHANTOU	CHN	116E36 23N30	A20	20	13.4				A	120	4	2000–1800	
19		S	SHENGSI	CHN	122E27 30N44	A20	5	7.4				A	120	4	2000–1800	
20		S	SHIBING	CHN	108E07 27N03	A20	10	10.4				A	120	5	2000–1800	
21		S	SHIMIAN	CHN	102E27 29N12	A20	1	0.4				A	120	4	2000–1800	
22		S	TAIYUAN	CHN	112E33 37N45	A20	50	17.4				A	120	4	2000–1800	
23		S	TAIZHONG SHI	CHN	120E41 24N09	A20	50	17.4				A	120	5	2000–1800	
24		S	TIANJIN	CHN	117E09 39N09	A20	20	13.4				A	120	4	2000–1800	
25		S	WANXIAN SHI	CHN	108E33 30N52	A20	20	13.4				A	120	4	2000–1800	
26		S	WEIFANG	CHN	119E06 36N43	A20	50	17.4				A	120	4	2000–1800	
27		S	WEIHAI	CHN	122E07 37N31	A20	5	7.4				A	120	4	2000–1800	
28		S	WUDU	CHN	104E55 33N24	A20	5	7.4				A	120	4	2000–1800	
29		S	WUGANG	CHN	110E38 26N43	A20	20	13.4				A	120	4	2000–1800	
30		S	WUHE	CHN	117E53 33N09	A20	10	10.4				A	120	4	2000–1800	
31		S	WUHU SHI	CHN	118E24 31N18	A20	5	7.4				A	120	4	2000–1800	
32		S	XIANGSHAN	CHN	121E52 29N28	A20	5	7.4				A	120	4	2000–1800	
33		S	XIUNING	CHN	118E10 29N47	A20	5	7.4				A	120	4	2000–1800	
34		S	YAAN	CHN	103E01 29N59	A20	5	7.4				A	120	4	2000–1800	
35		S	YAJIANG	CHN	100E57 30N05	A20	5	7.4				A	120	4	2000–1800	
36		S	YIBIN SHI	CHN	104E37 28N46	A20	5	7.4				A	120	4	2000–1800	
37		S	YICHANG SHI	CHN	111E12 30N48	A20	50	17.4				A	120	4	2000–1800	
38		S	YICHUN 2	CHN	128E45 47N40	A20	50	17.4				A	120	4	2000–1800	
39		S	YILAN	CHN	121E45 24N45	A20	50	17.4				A	120	5	2000–1800	
40		S	YINGKOU SHI	CHN	122E12 40N41	A20	20	13.4				A	120	4	2000–1800	
41		S	YIYANG SHI	CHN	112E21 28N36	A20	10	10.4				A	120	4	2000–1800	
42		S	YONGCHANG	CHN	101E58 38N15	A20	10	10.4				A	120	4	2000–1800	
43		S	YOUYANG	CHN	108E46 28N51	A20	10	10.4				A	120	4	2000–1800	
44		S	YUEYANG	CHN	113E10 29N17	A20	10	10.4				A	120	4	2000–1800	
45		S	YUMEN SHI	CHN	97E20 39N42	A20	50	17.4				A	120	4	2000–1800	
46		S	YUNCHENG	CHN	111E00 34N57	A20	20	13.4				A	120	4	2000–1800	
47		S	ZUNYI SHI	CHN	106E50 27N32	A20	5	7.4				A	120	5	2000–1800	
48			BLACK ROCK	CKH	159W50 21S12	A20	10	10.0				A	40	5	1600–0900	
49			BRAUNSCHW GEIT	D	10E28 52N13	D 9	100	20.4				A	120	4	0500–1700	
50			ARBA	ETH	40E10 09N00	C 9	50	17.4				A	119	3	0400–2300	
51			REDRUTH	G	05W13 50N13	A20	2	3.0				A	34	5	0000–2400	
52			MOUILA	GAB	11E00 02S00	C 9	30	16.9				A		5	0400–2400	
53			AGANA	GUM	144E44 13N16	C10	100	20.4				A	119	3	0000–2400	



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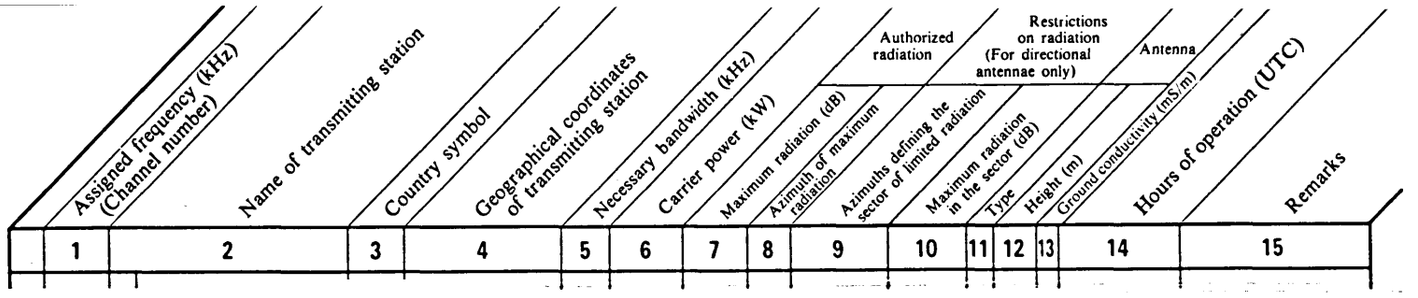
1	630	POONA	IND	73E55 18N31	A20	300	26.9				A	245	3	0300—1000	25
2	(12)	TRICHUR	IND	76E15 10N35	A20	300	26.9				A	240	4	0300—1000	25
3		TRICHUR	IND	76E15 10N35	A20	100	22.0	100	325—355	13.0	B		4	1000—0300	
4		UJUNGPANDANG	INS	119E28 05S09	A18	100	22.1				A	234	4	2100—1600	
5		IMJE	KOR	128E10 38N03	C10	5	7.4				A	120	6	0000—2400	
6		YEOSU	KOR	127E44 34N44	C10	10	10.4				A	102	4	0000—2400	
7		CHONGJIN	KRE	129E43 41N55	A16	1	0.0				A	50	5	2000—1800	
8		KUWAIT	KWT	48E20 29N34	A20	10	10.4				A	100	8	0000—2400	
9		MONROVIA	LBR	10W40 06N12	A20	50	17.4				A	119	5	0500—2400	
10		TAMATAVE	MDG	49E25 18S09	C 9	20	15.1				A	196	4	0300—2000	
11		MAIDUGURI	NIG	13E55 11N53	C 9	50	17.4				A	125	4	0500—2300	
12		SMOELA	NOR	07E56 63N22	D 9	1200	33.8				A	290	3	0000—2400	41/VIGRA
13		VIGRA	NOR	06E03 62N32	D 9	100	22.0				A	240	3	0000—2400	42/SMOELA
14		OPAPA	NZL	176E40 39S48	A20	20	13.0	40	80—180	10.0	B		4	0000—2400	
15		OPAPA	NZL	176E40 39S48	A20	20	13.0		260—360	10.0	B				
16		LAHORE	PAK	74E20 31N35	A20	100	20.4				A	121	3	0000—2000	
17		MEYCAUAYAN BUL	PHL	120E57 14N44	C 9	50	17.4				A	119	3	0000—2400	
18		OZAMIS CITY	PHL	123E49 08N08	C 9	5	7.4				A	119	3	2100—1600	
19		TIMISOARA	ROU	21E14 45N45	A20	400	29.0	130	250— 10	16.0	B		4	0000—2400	5/TUR
20		SINGAPORE 1	SNG	103E42 01N20	A20	50	17.4				A	120	4	0000—2400	
21		BANGKOK	THA	100E34 13N45	A20	10	10.0				A	45	2	0000—2400	
22		TUNIS DJEDEIDA	TUN	09E56 36N50	D 9	600	29.9				A	250	4	0000—2400	
23		CUKUROVA	TUR	34E44 36N49	D 9	300	31.0	255			B		4	0200—2300	5/ROU
24		KHABAROVSK	URS	135E04 48N29	C 9	1000	35.0	80	210—310	19.0	B		4	0000—2400	
25		KUIBYCHEV	URS	49E46 53N11	A16	150	23.9				A	220	4	0000—2400	
26		MINUSINSK	URS	91E40 53N43	A18	50	19.1				A	220	4	0000—2400	
27		LUSAKA	ZMB	28E15 15S30	A20	200	23.4				A	100	3	0200—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	639	S	CRYSTAL BRK SA	AUS	138E15 33S21	A20	10	10.6				A	183	2	1900—1400	
2	(13)		DARLINGDWN QLD	AUS	151E55 27S37	A20	0.6	−2.2				A	30	3	1900—1400	
3			MOSSMAN QLD	AUS	145E23 16S25	A20	1	0.0				A	61	4	1900—1400	
4		S	NARACOORTE SA	AUS	140E40 36S57	A20	10	12.1				A		2	1400—1900	
5			NATITINGOU	BEN	01E23 10N18	C10	1	0.0				A	47	4	0500—2400	
6		S	BEIHAI	CHN	109E07 21N29	A20	10	10.4				A	120	4	2000—1800	
7		S	BEIJING	CHN	116E27 39N57	A20	150	23.9				A	240	4	2000—1800	
8		S	BIYANG	CHN	113E18 32N43	A20	5	7.4				A	120	4	2000—1800	
9		S	BOSE	CHN	106E37 23N54	A20	20	13.4				A	120	4	2000—1800	
10		S	BUSHENG	CHN	81E09 30N17	A20	10	10.4				A	120	5	2000—1800	
11		S	DONGCHUAN	CHN	103E18 26N08	A20	10	10.4				A	120	5	2000—1800	
12		S	GEGYA	CHN	80E58 32N30	A20	10	10.4				A	120	5	2000—1800	
13		S	HABAHE	CHN	87E03 48N04	A20	10	10.4				A	120	4	2000—1800	
14		S	HANDAN SHI	CHN	114E28 36N36	A20	5	7.4				A	120	4	2000—1800	
15		S	HECHI	CHN	108E03 24N42	A20	10	10.4				A	120	4	2000—1800	
16		S	HEKOU	CHN	103E59 22N32	A20	10	10.4				A	120	5	2000—1800	
17		S	HENGSHUI	CHN	115E42 37N44	A20	10	10.4				A	120	4	2000—1800	
18		S	HORQIN YQ QI	CHN	122E04 46N04	A20	10	10.4				A	120	4	2000—1800	
19		S	LHASA	CHN	90E59 29N30	A20	100	22.1				A	240	5	2000—1800	
20		S	LIANYUNGANG	CHN	119E10 34N36	A20	20	13.4				A	120	3	2000—1800	
21		S	LIAOYUAN	CHN	125E10 42N52	A20	5	7.4				A	120	4	2000—1800	
22		S	LIJIANG	CHN	100E15 26N55	A20	20	13.4				A	120	5	2000—1800	
23		S	LINCANG	CHN	100E02 23N52	A20	20	13.4				A	120	5	2000—1800	
24		S	LONGHUA	CHN	117E43 41N19	A20	10	10.4				A	120	4	2000—1800	
25		S	LUCHUN	CHN	102E20 23N00	A20	10	10.4				A	120	5	2000—1800	
26		S	LUOYANG	CHN	112E24 34N42	A20	20	13.4				A	120	4	2000—1800	
27		S	LUXI	CHN	98E34 24N27	A20	20	13.4				A	120	5	2000—1800	
28		S	NANJING	CHN	118E54 32N06	A20	100	22.1				A	240	3	2000—1800	
29		S	NANNING	CHN	108E18 22N48	A20	50	17.4				A	120	4	2000—1800	
30		S	PINGDINGSHAN	CHN	113E17 33N42	A20	10	10.4				A	120	4	2000—1800	
31		S	PINGLE	CHN	110E38 24N38	A20	10	10.4				A	120	4	2000—1800	
32		S	PINGYU	CHN	114E38 32N58	A20	5	7.4				A	120	4	2000—1800	
33		S	QIUBEI	CHN	104E11 24N02	A20	20	13.4				A	120	5	2000—1800	
34		S	RUTO	CHN	79E44 33N25	A20	10	10.4				A	120	5	2000—1800	
35		S	SHANGSHUI	CHN	114E38 33N38	A20	5	7.4				A	120	4	2000—1800	
36		S	SHIZUISHAN	CHN	106E40 39N09	A20	10	10.4				A	120	4	2000—1800	
37		S	SHUANGLIAO	CHN	123E30 43N31	A20	10	10.4				A	120	4	2000—1800	
38		S	SUZHOU	CHN	120E41 31N18	A20	5	7.4				A	120	3	2000—1800	
39		S	TAIZHOU	CHN	119E55 32N30	A20	5	7.4				A	120	3	2000—1800	
40		S	TAXKORGAN	CHN	75E08 37N42	A20	10	10.4				A	120	4	2000—1800	
41		S	TONGCHUAN	CHN	109E09 35N06	A20	10	10.4				A	120	4	2000—1800	
42		S	TONGYU	CHN	123E05 44N49	A20	20	13.4				A	120	4	2000—1800	
43		S	URUMQI SHI	CHN	87E30 43N35	A20	100	22.1				A	240	4	2000—1800	
44		S	WUQI	CHN	108E11 36N55	A20	10	10.4				A	120	4	2000—1800	
45		S	XIAGUAN	CHN	100E13 25N34	A20	10	10.4				A	120	5	2000—1800	
46		S	XINXIANG SHI	CHN	113E52 35N18	A20	10	10.4				A	120	4	2000—1800	
47		S	XIXIA	CHN	111E26 33N24	A20	5	7.4				A	120	4	2000—1800	
48		S	YANAN	CHN	109E29 36N37	A20	10	10.4				A	120	4	2000—1800	
49		S	YANCHI	CHN	107E30 37N47	A20	50	17.4				A	120	4	2000—1800	
50		S	YANJI SHI	CHN	129E30 42N54	A20	5	7.4				A	120	4	2000—1800	
51		S	YONGSHOU	CHN	108E08 34N41	A20	10	10.4				A	120	4	2000—1800	
52		S	YULIN 1	CHN	110E08 22N37	A20	10	10.4				A	120	4	2000—1800	
53		S	YULIN 2	CHN	109E36 38N18	A20	20	13.4				A	120	4	2000—1800	
54		S	YUSHU 1	CHN	126E32 44N50	A20	20	13.4				A	120	4	2000—1800	



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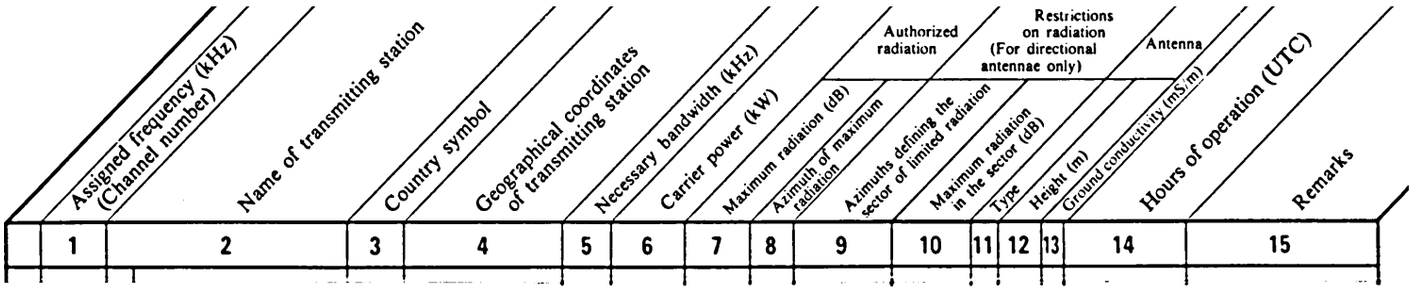
1	639	S	ZHENAN	CHN	109E10 33N27	A20	10	10.4				A	120	4	2000—1800	
2	(13)		MAHO	CLN	80E15 07N44	C10	50	17.4				A	117	5	0000—1800	
3			ZYYI	CYP	33E19 34N43	A20	500	35.0	180	70— 80	16.0	B		4	0000—2400	11/G 18/LSO
4			ZYYI	CYP	33E19 34N43	A20	500	35.0		228—232	24.0	B				SDN UGA
5			ZYYI	CYP	33E19 34N43	A20	500	35.0		315—335	14.0	B				
6		S	ALBACETE	E	01W51 39N00	D 9	1	0.0				A	50	4	0000—2400	19
7		S	ALCOY	E	00W28 38N42	D 9	1	0.0				A	50	5	0000—2400	19
8		S	ALMADEN	E	04W50 38N47	D 9	0.3	−5.2				A	50	5	0000—2400	19
9		S	ALMERIA	E	02W38 36N43	D 9	20	13.4				A	96	5	0000—2400	19
10		S	BADAJOZ	E	06W58 38N53	D 9	1	0.0				A	50	4	0000—2400	19
11		S	BEAS DE SEGURA	E	02W53 38N15	D 9	0.3	−5.2				A	50	5	0000—2400	19
12		S	BENAVENTE	E	05W41 42N00	D 9	0.3	−5.2				A	50	5	0000—2400	19
13		S	BILBAO	E	02W51 43N15	D 9	20	13.4				A	95	5	0000—2400	19
14		S	BURGOS	E	03W42 42N20	D 9	1	0.0				A	50	4	0000—2400	19
15		S	JAEN	E	03W47 37N47	D 9	1	0.0				A	50	4	0000—2400	19
16		S	LA CORUNA	E	08W23 43N09	D 9	200	23.4				A	108	5	0000—2400	19
17		S	OLOT	E	02E30 42N11	D 9	0.3	−5.2				A	50	5	0000—2400	19
18		S	PALMA MALLORCA	E	02E39 39N34	D 9	1	0.0				A	50	4	0000—2400	19
19		S	SALAMANCA	E	05W40 40N58	D 9	1	0.0				A	50	4	0000—2400	19
20		S	VILLABLINO	E	06W19 42N56	D 9	0.3	−5.2				A	50	5	0000—2400	19
21		S	ZARAGOZA	E	00W53 41N37	D 9	20	13.4				A	82	4	0000—2400	19
22			DRASA	FJI	177E31 17S35	A20	10	10.4				A	90	7	1700—1200	
23			GANGTOK	IND	88E40 27N20	C 9	50	19.1				A	200	4	0300—0900	25
24			KOHIMA	IND	94E03 25N43	A20	100	22.1				A	235	4	0300—0900	25
25			KOHIMA	IND	94E03 25N43	A20	50	19.1				A	235	4	0900—0300	
26			SLANE	IRL	06W30 53N40	A20	100	24.0	280	90—110	6.0	B		4	0000—2400	
27			BONAB	IRN	46E05 37N20	A20	400	26.4				A	117	3	0200—2100	
28			SHIZUOKA	J	138E25 34N57	A15	10	10.6				A	140	4	0000—2400	
29			MOMBASA	KEN	39E40 04S05	C 9	50	17.4				A	130	4	0000—2400	
30			SEOUL	KOR	126E52 37N29	C10	50	17.4				A	116	5	0000—2400	
31			CHONGJIN	KRE	129E43 41N55	A16	500	31.0				B		5	2000—1000	
32			CHONGJIN	KRE	129E43 41N55	A16	250	28.0				B		5	1000—1800	
33			VIENTIANE	LAO	102E38 17N59	A15	10	10.0				A	55	5	2300—1500	
34			LANCERS GAP	LSO	27E32 29S19	A20	100	20.4				A	100	4	0400—2200	18/G SDN UGA
35			ENTRE RIOS	MOZ	37E25 14S58	C10	3	5.2				A	78	4	0400—2200	
36			NEMA	MTN	07W16 16N36	B20	20	13.6				A	135	5	0600—2400	
37			KADUNA	NIG	07E31 10N42	C 9	50	17.4				A	100	4	0500—2300	
38			ALEXANDRA	NZL	169E24 45S10	A20	2	3.4				A	107	5	0000—2400	
39			KARACHI	PAK	67E04 24N51	A20	1000	34.0	40	310	23.0	B		4	0000—2000	
40			BATAC ILOCOS N	PHL	120E37 18N12	C 9	1	0.4				A	117	3	2100—1600	
41			CADIZ NEGROS	PHL	123E18 10N50	C 9	5	7.4				A	117	3	2100—1600	
42			EL OBEID	SDN	30E14 13N12	A20	200	25.1				A	225	4	0400—2400	18/G LSO UGA
43			PRAHA	TCH	14E53 50N04	C 9	1500	35.2				A	276	4	0000—2400	
44		S	N SITHAMMARAT	THA	99E58 08N25	A20	10	10.0				A	30	3	0000—2400	
45		S	PHUKET	THA	98E24 07N58	A20	10	10.0				A	30	3	0000—2400	
46			PRACHINBURI	THA	101E22 14N02	A20	50	17.6				A	156	3	0000—2400	
47			KIBIRA RD KLA	UGA	32E36 00N16	C 9	50	17.4				A	100	4	0300—2100	18/G LSO SDN
48			KHANTYMANSIISK	URS	69E03 60N57	A16	50	19.1				A	220	4	0000—2400	
49			KIRENSK	URS	108E06 57N47	A18	50	19.1				A	220	4	0000—2400	
50			UST KAMTCHATSK	URS	162E28 56N13	A18	50	19.1				A	220	5	0000—2400	
51			QUINHON	VTN	109E07 13N53	C10	50	20.0	260			B		4	2100—1600	
52			DRNIS	YUG	16E11 43N51	D 9	1	0.4				A	50	7	0800—1500	7



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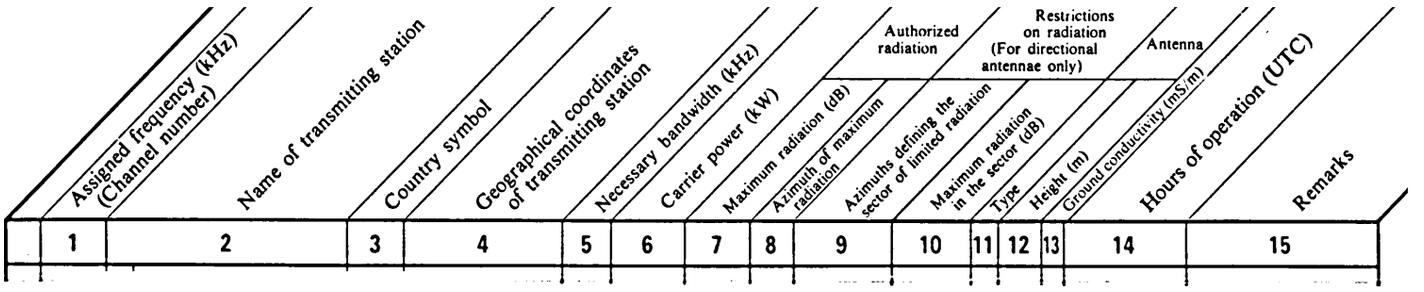
1	639	GRACANICA	YUG	18E19 44N49	D 9	1	0.4				A	55	4	0800—1500	7
2	(13)	SOKOBANJA	YUG	21E52 43N40	D 9	1	0.4				A	45	4	0800—1500	7
3		STIP	YUG	22E13 41N44	D 9	1	0.4				A	40	4	0800—1500	7



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1	648		TALUQAN	AFG	69E30 36N45	C 9	10	10.0				A	60	4	0100—2000	
2	(14)		RROGOZHINA	ALB	19E39 41N05	A20	300	26.9				A	255	5	0400—2300	23/URS
3			JEDDAH	ARS	39E09 21N14	C10	2000	38.0	130	230— 30	18.0	B		4	0000—2400	24
4		S	BEGA NSW	AUS	149E50 36S42	A20	10	10.6				A	137	4	1900—1400	
5			KALGOORLIE WA	AUS	121E24 30S47	A20	10	10.4				A	123	2	2100—1600	
6		S	MANILLA NSW	AUS	150E44 30S47	A20	10	10.6				A	172	4	1900—1400	
7			LAJES	AZR	27W09 38N43	A20	1	0.0				A	50	4	0000—2400	
8			ORAPA	BOT	25E20 21S18	A20	50	17.4				A	100	4	0300—2100	
9			ANDA SHI	CHN	125E20 46N30	A20	0.1	−9.6				A	50	4	2000—1800	
10		S	DONGFANG	CHN	108E36 19N06	A20	50	17.4				A	120	4	2000—1800	
11		S	HUIZHOU	CHN	114E24 23N05	A20	100	22.1				A	240	4	2000—1800	
12		S	JIEXI	CHN	115E50 23N26	A20	10	10.4				A	120	4	2000—1800	
13		S	QIONGHAI	CHN	110E26 19N15	A20	10	10.4				A	120	4	2000—1800	
14		S	SHAOGUAN	CHN	113E32 24N47	A20	10	10.4				A	120	4	2000—1800	
15			TONGLING	CHN	117E47 30N57	A20	5	7.4				A	120	4	2000—1800	
16		S	ZHAOQING	CHN	112E27 23N03	A20	20	13.4				A	120	4	2000—1800	
17			RATNAPURA	CLN	80E22 06N40	C10	50	17.6				A	140	7	0000—1800	
18		S	KEMIJARVI	FNL	27E23 66N43	D 9	10	10.6				A	150	6	0000—2400	
19		S	LIEKSA	FNL	30E02 63N19	D 9	10	10.6				A	150	6	0000—2400	
20		S	TAMPERE 1	FNL	23E46 61N48	D 9	100	22.1				A	250	5	0000—2400	
21		S	EDINBURGH	G	03W15 55N58	A20	2	3.0				A	38	4	0000—2400	
22		S	EXETER	G	03W31 50N41	A20	0.5	−3.0				A	36	4	0000—2400	
23		S	GLASGOW	G	04W19 55N50	A20	2	3.0				A	38	4	0000—2400	
24		S	NEWCASTLE	G	01W34 54N56	A20	2	3.0				A	38	4	0000—2400	
25		S	ORFORDNESS	G	01E35 52N06	A20	150	23.9				A	220	3	0000—2400	
26		S	PLYMOUTH	G	04W08 50N24	A20	0.5	−3.0				A	33	5	0000—2400	
27		S	REDMOSS	G	02W05 57N07	A20	2	3.4				A	76	5	0000—2400	
28		S	REDRUTH	G	05W13 50N13	A20	1	0.0				A	38	5	0000—2400	
29		S	SWANSEA	G	03W58 51N38	A20	1	0.0				A	24	4	0000—2400	
30			AJENA	GHA	00E10 06N20	C 9	50	17.6				A	150	4	0500—2300	
31			BONTO 1	GMB	16W33 13N18	C 9	20	16.0	78	210—310	6.0	B		4	0600—2400	
32			KOMOTINI	GRC	25E24 41N07	C 9	10	10.0				A	50	5	0400—2300	
33			INDORE	IND	75E50 22N44	A20	200	25.1				A	235	3	0000—2400	
34			MANGALORE	IND	74E48 12N48	A20	300	26.9				A	235	4	0300—1000	25
35			OKINAWA	J	127E42 26N15	A15	10	10.4				A	92	4	0000—2400	
36			TOYAMA	J	137E14 36N43	A15	5	7.4				A	108	5	0000—2400	
37			BOSEONG	KOR	127E05 34N45	C10	1	0.4				A	120	4	0000—2400	
38			IMSIL	KOR	127E16 35N35	A10	1	0.4				A	120	6	0000—2400	
39			PUNGSAN	KRE	128E09 40N49	A16	10	10.4				A	105		2000—1800	
40		S	HUN	LBY	15E56 29N07	D 9	10	12.1				A	230	6	0400—2200	24
41		S	TOBRUK	LBY	23E58 32N05	D 9	300	26.9				A	230	4	0400—2200	24
42			KUALA LIPIS	MLA	102E00 04N03	A20	20	13.6				A	150	5	0000—2400	
43			LIMBANG	MLA	115E00 04N45	A20	20	13.4				A	113	5	2200—1600	
44			MISSOUR	MRC	04W10 33N05	A20	100	22.1				A	233	5	0500—2400	24
45			SELIBABY	MTN	12W11 15N14	B20	20	13.4				A	115		0600—2400	24
46			DHANKUTA	NPL	87E19 27N00	A20	100	20.4				A	120	4	2200—1900	
47			KERIKERI	NZL	173E59 35S12	A20	1	0.0				A	50	4	0000—2400	
48			LIPA BATANGAS	PHL	121E09 13N56	C 9	1	0.4				A	115	3	2100—1600	
49			MALAYBALAY BUK	PHL	125E07 08N07	C 9	5	7.4				A	115	3	2100—1600	
50			LEONE	SMA	170W47 14S22	C10	10	10.4				A	60	2	0000—2400	
51			NACHINGWEA	TGK	38E52 10S20	C 9	100	20.4				A	89	4	0300—1600	
52			NACHINGWEA	TGK	38E52 10S20	C 9	100	23.0	270			B		4	1600—2100	
53			KHON KAEN	THA	102E49 16N34	A20	55	19.5				A	205	3	0000—2400	
54			PHRAE	THA	100E11 18N15	A20	50	17.4				A	116	5	0000—2400	

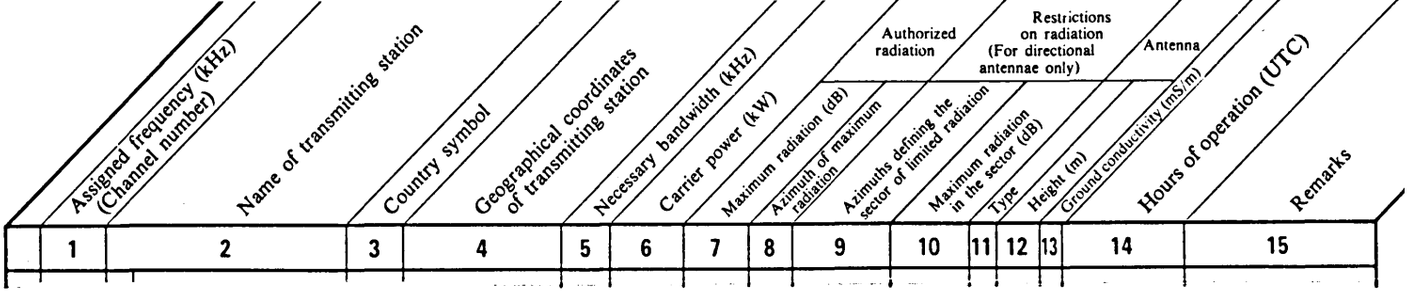
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

648 KHZ (14)

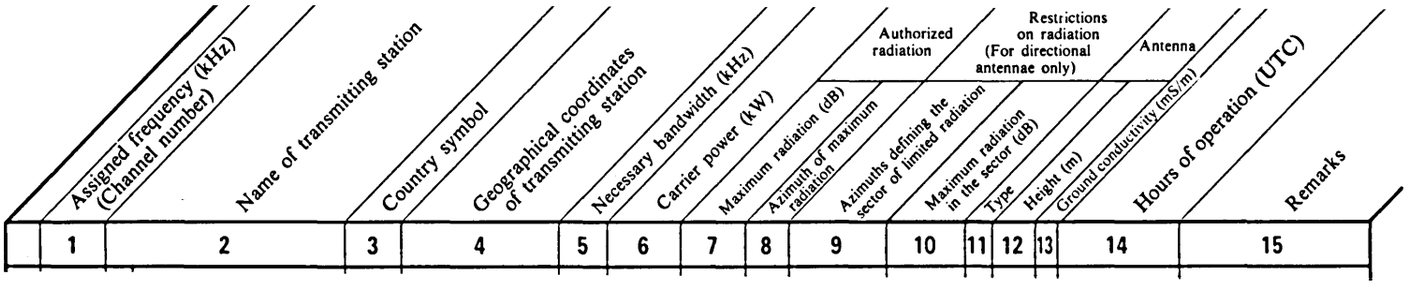
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	648	S	KHARKOV	UKR	36E17 50N00	A16	100	22.1				A	220	4	0000—2400	
2	(14)	S	SIMFEROPOL	UKR	34E06 44N56	A16	150	23.9				A	220	4	0000—2400	
3			IMAN	URS	133E43 45N56	C 9	1000	35.0	10	160—220	16.0	B		4	0000—2400	
4			URGHENTCH	URS	60E20 41N40	A18	150	25.0	340	140—200	11.0	B		4	0000—2400	
5			MURSKA SOBOTA	YUG	16E11 46N41	D 9	10	10.0				A	60	4	0000—2400	

1	Assigned frequency (kHz) (Channel number)	2	Name of transmitting station	3	Country symbol	4	Geographical coordinates of transmitting station	5	Necessary bandwidth (kHz)	6	Carrier power (kW)	Authorized radiation: 7 Maximum radiation (dB); 8 Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): 9 Azimuths defining the sector of limited radiation; 10 Maximum radiation in the sector (dB)	Antenna: 11 Type; 12 Height (m); 13 Ground conductivity (mS/m)	14 Hours of operation (UTC)	15 Remarks

1	2		3	4		5	6	7	8	9	10	11	12	13	14	15
1	657	KABOUL YAKATUT	AFG	69E12	34N31	C 9	25	14.4				A	103	4	0100—2000	
2	(15)	N REDONDO	AGL	13E50	11S10	A20	5	7.4				A	110	3	0000—2400	
3		EL AAIUN	AOE	13W12	27N10	A20	50	17.0				A	50	4	0000—2400	11/E
4		GURIAT	ARS	37E25	31N25	C 9	500	27.4				A	120	4	0000—2400	24
5		BYROCK NSW	AUS	146E25	30S39	A20	10					B		3	1900—1400	
6		DARWIN NT	AUS	130E51	12S25	A20	50	17.0				A	40	3	1900—1400	
7		ESPERANCE WA	AUS	121E52	33S45	A20	2	3.4				A	62	2	2100—1600	
8	S	HUANGCHUAN	CHN	115E02	32N07	A20	10	10.4				A	120	4	2000—1800	
9		HUNJIANG	CHN	126E23	41N54	A20	1	0.4				A	100	4	2000—1800	
10	S	LUOHE	CHN	114E01	33N32	A20	50	17.4				A	120	4	2000—1800	
11		PINGXIANG GX	CHN	106E45	22N11	A20	1	0.4				A	50	4	2000—1800	
12	S	QINGFENG	CHN	115E06	35N54	A20	10	10.4				A	120	4	2000—1800	
13	S	SHANGQIU SHI	CHN	115E39	34N27	A20	20	13.4				A	120	4	2000—1800	
14	S	ZHENGZHOU	CHN	113E42	34N42	A20	100	22.1				A	240	4	2000—1800	
15		YATIYANTOTA	CLN	80E17	07N02	C10	20	13.6				A	130	7	0000—1800	
16		NEUBRANDENBURG	DDR	13E05	53N30	D 9	2000	35.1				A	230	4	0400—1800	
17		NEUBRANDENBURG	DDR	13E05	53N30	D 9	20	15.1				A	230	4	1800—0400	
18		DESSIE	ETH	39E37	11N00	C 9	10	10.4				A	114	3	0400—1500	
19		WREXHAM	G	03W01	53N02	A20	2	3.0				A	38	3	0000—2400	
20	S	NAPOLI	I	14E19	41N00	D 9	120	22.9				A	200	4	0000—2400	
21	S	SALENTO	I	18E17	39N55	D 9	10	10.4				A	117	4	0000—2400	
22	S	SONDRIO	I	09E50	46N10	D 9	2	3.4				A	61	5	0000—2400	
23	S	TORINO	I	07E44	45N02	D 9	50	17.4				A	80	4	0000—2400	
24	S	TRAPANI	I	12E34	37N55	D 9	2	3.4				A	110	5	0000—2400	
25	S	VENEZIA	I	12E27	45N36	D 9	300	26.9				A	228	4	0000—2400	
26		AHMEDABAD	IND	72E38	23N02	A20	300	26.9				A	230	3	0300—0900	25
27		CALCUTTA	IND	88E23	22N36	A20	300	27.0	130	295—325	22.0	B		3	0000—2400	
28		VIJAYAWADA	IND	80E39	16N31	A20	300	28.2				A	275	3	0300—1000	25
29		TEL AVIV 1	ISR	34E50	31N50	D 9	200	25.0				A	194	3	0000—2400	5/TUR 33
30		OBIHIRO	J	143E12	42N59	A15	5	7.4				A	108	4	0000—2400	
31		CHUNCHEON	KOR	127E43	37N55	C10	50	17.4				A	120	5	0000—2400	
32		KANGNAM	KRE	125E33	39N05	A16	1500	39.0				B		6	2000—1000	
33		KANGNAM	KRE	125E33	39N05	A16	750	36.0				B		6	1000—1800	
34		GRIK	MLA	101E08	05N23	A20	20	13.6				A	150	5	2200—1700	
35		TANTAN	MRC	10W51	28N27	A12	20	13.6				A	180	5	0500—2400	24
36		IBADAN	NIG	03E57	07N24	C 9	50	21.0	305			B		4	0400—2300	
37		WELLINGTON	NZL	174E51	41S06	A20	60	19.9				A	218	4	0000—2400	
38		BORONGAN SAMAR	PHL	125E25	11N36	C 9	1	0.4				A	114	3	2100—1600	
39		S FERNANDO LU	PHL	120E18	16N37	C 9	1	0.4				A	114	3	2100—1600	
40	S	KARKAR I	PNG	145E53	04S44	B10	10	10.4				A	80	2	1900—1400	
41	S	KAVIENG	PNG	150E48	02S25	D10	10	10.4				A	80	3	1900—1400	
42	S	KIETA	PNG	155E40	06S20	D10	10	10.4				A	80	5	1900—1400	
43	S	POPONDETTA	PNG	148E17	08S49	D10	10	10.4				A	80	3	1900—1400	
44	S	TARI	PNG	142E57	05S51	D10	10	10.4				A	80	5	1900—1400	
45	S	ALBESTI	ROU	28E20	43N50	A20	2	3.4				A	105	3	0300—2300	
46	S	CHISINAU CRIS	ROU	21E30	46N32	D 9	2	3.4				A	105	2	0300—2300	
47	S	HIRSOVA	ROU	27E59	44N42	A20	1	0.4				A	105	3	0300—2300	
48		DAR ES SALAAM	TGK	39E15	06S50	C 9	100	20.4				A	114	4	0300—1600	
49		DAR ES SALAAM	TGK	39E15	06S50	C 9	100	23.0	270	350—190	20.0	B		4	1600—2100	
50		BANGKOK	THA	100E31	13N47	A20	10	10.4				A	110	2	0000—2400	
51		URLA	TUR	27E25	39N00	D 9	600	32.0	180	270— 90	10.0	B		4	0200—2300	5/ISR
52		URLA	TUR	27E25	39N00	D 9	600	32.0		125—150	27.0	B				
53		AL AIN	UAE	55E57	24N30	C 9	100	23.0	180	290— 70	17.0	B		7	0200—2200	24
54		TCHERNOVTSY	UKR	25E55	48N20	A16	25	16.1				A	220	4	0000—2400	



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	657	GROZNYI	URS	45E40 43N20	C10	50	19.1				A	220	4	0000—2400	
2	(15)	MARY	URS	61E50 37N35	A18	50	19.1				A	220	4	0100—1100	
3		MURMANSK	URS	33E05 68N58	A16	150	23.9				A	220	5	0000—2400	
4		VERKHOIANSK	URS	133E10 67N36	A16	50	19.1				A	220	4	0000—2400	
5		TESLIC	YUG	17E51 44N36	D 9	1	0.4				A	50	4	0800—1500	7

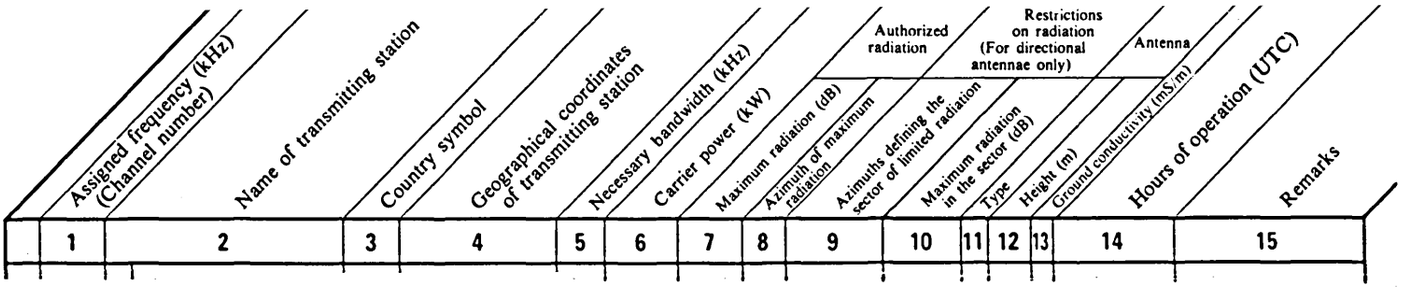


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	666		TINDOUF	ALG	08W07 27N38	D 9	100	24.0	230	0—100	9.0	B		5	0000—2400	24
2	(16)		GLEN INNES NSW	AUS	151E46 29S47	A20	10			50— 70	3.0	B		4	1900—1400	
3			PINNAROO SA	AUS	141E00 36S00	A20	10	12.1				A	113	2	1900—1400	
4			DEHUA	CHN	118E15 25N30	A20	200	25.1				A	240	4	2000—1800	
5			JIAMUSI	CHN	130E30 46N40	A20	10	10.4				A	120	4	2000—1800	
6		S	MADO	CHN	98E14 34N50	A20	20	13.4				A	120	5	2000—1800	
7		S	XINING	CHN	101E50 36N35	A20	100	22.1				A	240	5	2000—1800	
8		S	YUSHU 2	CHN	97E00 33N00	A20	10	10.4				A	90	5	2000—1800	
9			SENKADAGALA	CLN	80E40 07N10	C10	20	13.4				A	116	6	0000—1800	
10			BODENSEESENDER	D	09E07 48N01	D 9	300	25.4				A	137	4	0500—1700	
11			BODENSEESENDER	D	09E07 48N01	D 9	300	24.8	280	30— 50	16.8	B		4	1700—0500	
12			BODENSEESENDER	D	09E07 48N01	D 9	300	24.8		80— 90	22.8	B				
13			BODENSEESENDER	D	09E07 48N01	D 9	300	24.8		120—140	16.8	B				
14			EXETER	G	03W31 50N41	A20	1	−4.0				A	37	4	0000—2400	
15			TRIKALA	GRC	21E47 39N32	C 9	250	26.1				A	225	5	0500—1700	
16			TRIKALA	GRC	21E47 39N32	C 9	250	26.0	170	310— 30	11.0	B		5	1700—0500	
17			NZEREKORE	GUI	08W58 07N54	C 9	100	20.4				A	113	4	0000—2400	
18			DELHI	IND	77E12 28N38	C 9	1000	32.1				A	225	3	0300—0900	25
19			DELHI	IND	77E12 28N38	C 9	500	30.0	220	355— 85	17.0	B		3	0900—0300	
20			DELHI	IND	77E12 28N38	C 9	500	30.0		335—355	22.0	B				
21			AHWAZ	IRN	48E40 31N20	A20	100	20.4				A	112	3	0100—2200	
22			HOEFN	ISL	15W42 64N13	A20	100	20.4				A	120	5	0700—0200	
23			MIKI	J	134E59 34N49	A15	0.1	−9.6				A		5	0000—2400	
24			OSAKA	J	135E34 34N33	A15	100	22.1				A	195	4	0000—2400	
25			KISUMU	KEN	34E45 00S05	C 9	20	13.4				A	100	4	0000—2400	
26			KOSAN	KRE	127E25 38N52	A16	1	0.0				A	50		2000—1800	
27			PENANG	MLA	100E18 05N22	A20	20	13.4				A	95	5	0000—2400	
28			NOUMEA 1	NCL	166E29 22S18	A20	20	13.4				A	90	3	0000—2400	
29			EKU	NIG	05E59 05N45	C 9	100	20.4				A	108	4	0500—2300	
30			THAMES	NZL	175E35 37S08	A20	0.1	−10.0				A	50	4	0000—2400	
31			DAVAO CITY	PHL	125E30 07N01	C 9	10	10.4				A	112	3	2100—1600	
32			NAVOTAS RIZAL	PHL	120E57 14N38	C 9	10	10.4				A	112	3	2100—1600	
33		S	BRAGANCA	POR	06W45 41N47	A20	1	0.4				A	90	7	0000—2400	
34		S	COVILHA	POR	07W29 40N14	A20	10	10.4				A	90	5	0000—2400	
35		S	LISBOA	POR	08W57 38N58	A20	135	21.9				A	180	3	0000—2400	
36		S	PORTO	POR	08W35 41N06	A20	10	10.4				A	90	3	0000—2400	
37		S	V REAL	POR	07W43 41N16	A20	10	10.4				A	90	5	0000—2400	
38		S	VALENCA	POR	08W38 42N01	A20	10	10.4				A	90	5	0000—2400	
39		S	VISEU	POR	07W55 40N38	A20	10	10.4				A	90	5	0000—2400	
40			S PIERRE 1	REU	55E29 21S19	A20	20	13.4				A	60	4	0000—2400	
41			KASSALA	SDN	36E22 15N23	A20	200	27.0	250			B		4	0400—2400	24
42			BURAN	SOM	48E46 10N14	A18	10	10.4				A	110	4	0300—2100	
43			DAMAS SABBOURA	SYR	36E55 33N33	C 9	100	22.1				A	206	4	0300—2400	
44			UDON THANI	THA	102E48 17N24	A20	20	13.4				A	108	3	0000—2400	
45			BARNAUL	URS	83E48 53N21	A16	150	23.9				A	220	4	0000—2400	
46			DUDINKA	URS	86E07 69N37	A16	150	23.9				A	220	5	0000—2400	
47		S	KOMSOMOLSKAMUR	URS	137E15 50N55	C 9	100	23.0	50	210—240	10.0	B		4	0000—2400	
48			KRASNODAR	URS	39E07 45N01	A16	30	16.9				A	220	4	0000—2400	
49		S	SKOVORODINO	URS	123E58 53N58	A18	50	22.0	340	140—180	10.0	B		4	0000—2400	
50			TACHKENT	URS	69E13 41N19	A16	30	16.9				A	220	4	0000—2400	
51			VILNIUS	URS	25E15 54N40	A16	500	29.1				A	220	4	0400—1600	
52			VILNIUS	URS	25E15 54N40	A16	500	32.0	60	180—250	21.0	B		4	1600—0400	
53			SOMBOR	YUG	19E11 45N49	D 9	10	10.4				A	60	3	0000—2400	
54			LODJA	ZAI	23E31 03S32	C 9	10	10.4				A	60	8	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

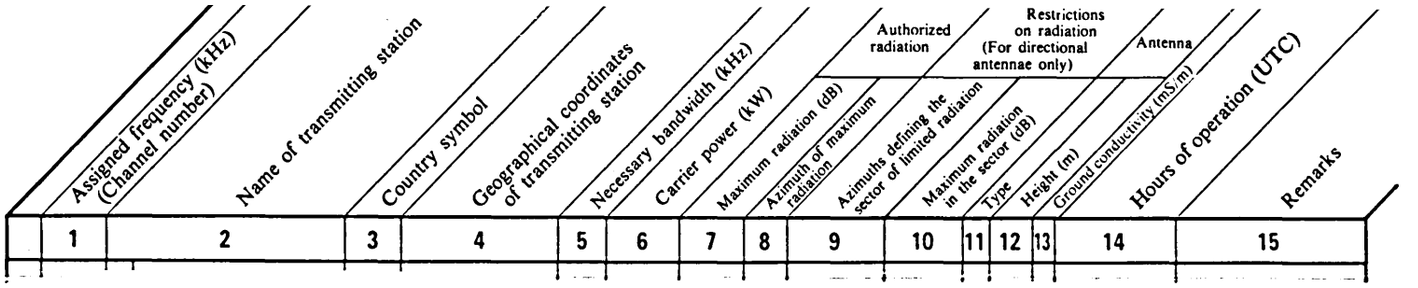
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	666	CHIPATA	ZMB	32E43 13S22	A20	50	23.0	260	350— 50	15.0	B		4	0200—2100	
2	(16)	CHIPATA	ZMB	32E43 13S22	A20	50	17.0	80	110—170	15.0	B				

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	675		QAISOMAH	ARS	46E00	28N00	C 9	20	13.4				A	120	7	0400—1400	24
2	(17)		BROOME WA	AUS	122E14	17S58	A20	0.1	—10.0				A	34	3	2100—1600	
3			COROWA NSW	AUS	146E25	35S57	A20	10					B		4	1900—1400	
4			KATHERINE NT	AUS	132E15	14S28	A20	0.1	—10.0				A	21	2	1900—1400	
5			KG SERASA	BRU	115E03	05N00	A20	100	23.0	190			B		4	2200—1500	
6			GEJIU	CHN	103E08	23N21	A20	0.1	—9.6				A	50	5	2000—1800	
7		S	HUHHOT	CHN	111E30	41N12	A20	100	22.1				A	240	4	2000—1800	
8		S	NUNGNIN SUM	CHN	118E58	45N40	A20	20	13.4				A	120	4	2000—1800	
9			WEERAKETIYA	CLN	80E48	06N10	C10	50	17.6				A	125	5	0000—1800	
10			PRAIA	CPV	23W30	14N55	A18	25	14.0				A	40	6	0000—2400	
11			MARSEILLE	F	05E20	43N28	D 9	600	29.9				A	220	5	0000—2400	
12			HELSINKI 1	FNL	24E49	60N11	D 9	45	17.1				A	150	5	0000—2400	
13			PENG CHAU	HKG	114E02	22N17	A20	10	10.4				A	91	5	0000—2400	
14			LOPIK	HOL	05E03	52N01	D 9	120	21.2				A	110	4	0000—2400	42/ROERMOND
15			ROERMOND	HOL	05E44	51N11	D 9	120	21.2				A	110	4	0000—2400	41/LOPIK
16			BANGALORE 1	IND	77E38	12N58	A20	20	15.1				A	220	3	0300—1000	25
17			BANGALORE 2	IND	77E38	12N58	A20	10	12.1				A	220	3	1000—0300	
18			BHUJ	IND	69E43	23N15	A20	300	26.9				A	225	3	0300—0900	25
19			ITANAGAR	IND	94E42	27N12	A20	200	26.0	330	100—200	13.0	B		4	0000—2400	
20			VARANASHI	IND	83E00	25N20	C 9	100	22.1				A	225	3	0300—0900	25
21			DUNGARVAN 2	IRL	07W46	52N05	A20	100	24.0	270	80—100	10.0	B		4	0000—2400	
22			HAMADAN	IRN	48E43	35N12	C 9	10	10.0				A	100	3	0230—1500	
23			HAMADAN	IRN	48E43	35N12	C 9	5	7.0				A	100	3	1500—2400	
24			BET HILEL	ISR	35E36	33N12	D 9	400	28.0				A	145	4	0000—2400	33
25			HAKODATE	J	140E46	41N49	A15	5	9.0	345			B		5	0000—2400	
26			YAMAGUCHI	J	131E31	34N02	A15	5	7.4				A	109	5	0000—2400	
27			JERUSALEM	JOR	35E12	31N53	C 9	200	25.1				A	195	5	0400—2200	24
28			NAIROBI	KEN	36E55	01S35	C 9	20	13.4				A	100	4	0000—2400	
29			KUNSAN	KOR	126E50	35N56	C10	10	10.6				A	132	4	0000—2400	
30			HUCHANG	KRE	127E09	41N24	A16	1	0.0				A	50		2000—1800	
31			BENGHAZI	LBY	20E04	32N02	D 9	100	22.1				A	220	4	0400—2200	24
32			FIANARANTSOA	MDG	47E05	21S18	C 9	5	9.1				A	222	4	0300—2000	
33			LAHAD DATU	MLA	118E21	05N02	A20	10	10.6				A	150	5	0000—2400	
34			MZUZU	MWI	33E56	11S30	A20	50	17.4				A	111	3	0200—2300	
35			AHA	NIG	03E30	08N34	C 9	10	10.4				A	90	4	0400—2300	
36			MARIENTAL	NMB	17E58	24S37	A20	50	17.6				A	157	2	0000—2400	
37			BODOE	NOR	14E30	67N20	D 9	10	12.1				A	100	3	0500—2400	
38			CHRISTCHURCH	NZL	172E39	43S42	A20	20	13.4				A	90	4	0000—2400	
39			CEBU CITY	PHL	123E53	10N18	C 9	5	7.4				A	111	3	2100—1600	
40			LAOAG ILOCOS S	PHL	120E35	18N11	C 9	5	7.4				A	111	3	2100—1600	
41		S	BEREINA	PNG	146E31	08S39	D10	2	3.0				A	30	3	1900—1400	
42		S	KUPIANO	PNG	148E13	10S04	D10	2	3.0				A	30	3	1900—1400	
43		S	LAE	PNG	147E00	06S44	D10	10	10.4				A	80	3	1900—1400	
44		S	MAPRIK	PNG	143E03	03S38	D10	10	10.4				A	80	3	1900—1400	
45		S	MENDI	PNG	143E51	06S10	D10	10	10.4				A	80	5	1900—1400	
46		S	RABAUL	PNG	152E10	04S15	D10	10	10.4				A	80	6	1900—1400	
47			DOHA	QAT	51E32	25N17	C 9	100	20.4				A	100	5	0300—2000	24
48			SINGAPORE 1	SNG	103E42	01N20	A20	50	17.4				A	100	4	0000—2400	
49			CHIANG MAI	THA	99E06	18N54	A20	20	13.4				A	108	5	0000—2400	
50		S	UJGOROD	UKR	22E20	48N38	C 9	50	19.1				A	220	4	0000—2400	
51		S	VOLOTCHISK	UKR	26E12	49N36	C 9	50	19.1				A	220	4	0000—2400	
52			ENISEISK	URS	92E05	58N27	A16	150	23.9				A	220	4	0000—2400	
53			KALEVALA	URS	31E11	65N13	A18	5	9.1				A	220	4	0000—2400	
54			MARY	URS	61E50	37N35	A16	150	23.9				A	220	4	0000—2400	



675 KHZ (17)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	675	S	ROSTOV NA DONU	URS	39E44 47N15	A16	100	22.1				A	220	4	0000—2400	
2	(17)		NHATRANG	VTN	109E11 12N17	C10	50	20.0	270			B		4	2100—1600	



	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	684		KHOST MATON	AFG	70E00	33N20	A 9	10	10.4				A	60	4	0100—2000	
2	(18)	S	BUSSELTON WA	AUS	115E13	33S39	A20	4	8.1				A	183	2	2100—1600	
3		S	GERALDTON WA	AUS	114E37	28S44	A20	4	6.4				A	61	3	2100—1600	
4			SMITHTOWN NSW	AUS	152E57	31S00	A20	10	10.6				A	168	3	1900—1400	
5			TENNANT CK NT	AUS	134E11	19S39	A20	1	0.0				A	51	2	1900—1400	
6			COTONOU	BEN	02E28	06N22	A10	100	20.4				A	110	4	0500—2400	
7		S	DANGCHANG	CHN	104E25	33N55	A20	10	10.4				A	120	4	2000—1800	
8			DINGHAI	CHN	122E06	30N01	A20	10	10.4				A	120	4	2000—1800	
9		S	DUNHUANG	CHN	94E37	40N09	A20	10	10.4				A	120	4	2000—1800	
10			FUSHUN SHI	CHN	123E53	41N51	A20	10	10.4				A	120	4	2000—1800	
11			HAIKOU	CHN	110E15	20N02	A20	200	25.1				A	240	4	2000—1800	
12		S	LINXIA	CHN	102E55	35N19	A20	10	10.4				A	120	4	2000—1800	
13			MUDANJIANG	CHN	129E36	44N36	A20	10	10.4				A	120	4	2000—1800	
14			TANGSHAN	CHN	118E13	39N38	A20	10	10.4				A	120	4	2000—1800	
15		S	WUWEI	CHN	102E33	37N57	A20	10	10.4				A	120	4	2000—1800	
16		S	XIFENGZHEN	CHN	107E30	35N48	A20	10	10.4				A	120	4	2000—1800	
17		S	ZHANGYE	CHN	100E30	38N54	A20	20	13.4				A	120	4	2000—1800	
18			WELIMADA	CLN	80E57	06N50	A10	50	17.6				A	140	7	0000—1800	
19			HOF SAALE	D	11E54	50N19	D 9	100	20.4				A	100	4	0800—1500	
20			SEVILLA	E	05W55	37N12	D 9	500	29.1				A	232	3	0000—2400	19
21			GORE	ETH	35E32	08N09	A 9	200	23.4				A	110	3	0400—2300	
22			LABASA	FJI	179E22	16S25	A20	2.5	4.0				A	30	3	1700—1200	
23			BARNSTAPLE	G	04W07	51N03	C10	2	3.0				A	38	4	0000—2400	
24			BONTO 2	GMB	16W33	13N18	C 9	20	16.0	78	210—310	6.0	B		4	0600—2400	
25			BHAWANI PATNA	IND	83E18	19N54	A20	300	26.9				A	220	3	0300—1000	25
26			KARGIL 1	IND	76E00	34N50	A20	20	13.6				A	130	4	0300—0900	25
27			KARGIL 2	IND	76E00	34N50	A20	10	10.6				A	130	4	0900—0300	
28			KOZHIKODE 1	IND	75E50	11N15	A20	300	25.4				A	130	4	0300—1000	25
29			KOZHIKODE 2	IND	75E50	11N15	A20	100	20.6				A	130	4	1000—0300	
30			MATHURA	IND	77E40	27N30	A20	300	26.9				A	220	3	0300—0900	25
31			PT BLAIR 1	IND	92E43	11N41	A20	300	26.9				A	220	4	0300—1000	25
32			PT BLAIR 2	IND	92E43	11N41	A20	100	22.1				A	220	4	1000—0300	
33			MASHHAD	IRN	59E38	36N16	A14	100	20.0	220	25— 35	18.0	B		3	0100—2200	
34		S	KUJI	J	141E48	40N11	A15	0.1	−10.0				A	50	5	0000—2400	
35		S	MORIOKA	J	141E08	39N37	A15	5	7.4				A	124	5	0000—2400	
36			NAGASAKI	J	129E53	32N43	A15	5	7.4				A	110	5	0000—2400	
37			GOGSEONG	KOR	127E19	35N17	A10	1	0.4				A	80	4	0000—2400	
38			SAMGO	KRE	126E32	38N02	A16	250	31.0				B		7	2000—1000	
39			SAMGO	KRE	126E32	38N02	A16	125	28.0				B		7	1000—1800	
40			CUREPIPE	MAU	57E31	20S19	A20	300	24.8				A	50	4	0200—2000	
41			AIOUN ATROUSS	MTN	09W33	16N40	B20	20	13.4				A	109		0600—2400	24
42			POKHRA	NPL	83E58	28N16	C 9	100	20.4				A	120	4	2200—1900	
43			FAIRLIE	NZL	170E50	44S05	A20	1	0.0				A	50	4	0000—2400	
44			CABANATUAN NE	PHL	120E57	15N28	C 9	1	0.4				A	109	3	2100—1600	
45			COTABATO CITY	PHL	124E14	07N13	C 9	5	7.4				A	109	3	2100—1600	
46			LEGASPI CITY	PHL	123E44	13N08	C 9	1	0.4				A	109	3	2100—1600	
47			BANGKOK	THA	100E42	13N41	A20	10	10.4				A	105	2	0000—2400	
48			KAIROUAN	TUN	10E08	35N40	D 9	10	12.1				A		4	0700—1600	24
49			ABAKAN	URS	91E23	53N35	A16	30	16.9				A	220	4	0000—2400	
50			KEM	URS	34E36	64N57	A18	50	19.1				A	220	4	0000—2400	
51			NIKOLAEVSKAMUR	URS	140E42	53N10	A18	150	27.0	350	120—200	16.0	B		4	0000—2400	
52			TSELINOGRAD	URS	71E23	51N12	C10	300	30.0	0	140—220	19.0	B		4	0000—2400	
53			BEOGRAD	YUG	20E08	44N38	D 9	2000	35.1				A	235	3	0000—2400	

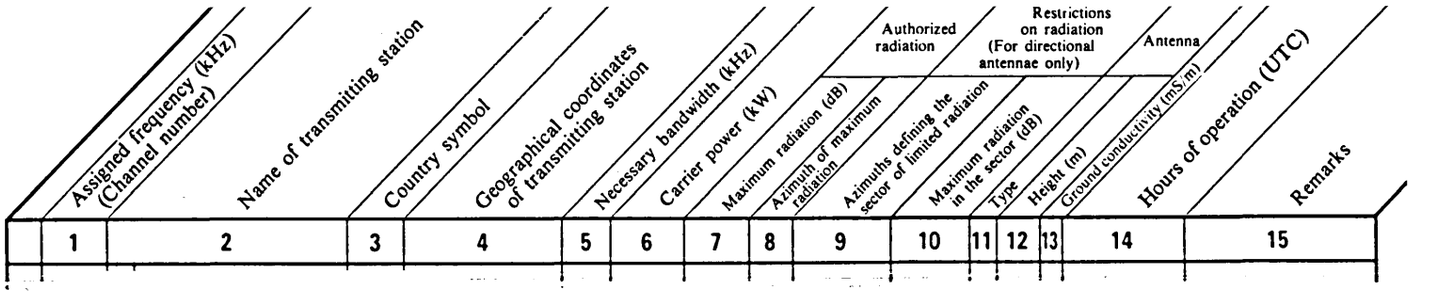
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks

693 KHZ (19)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	693	ADRAR	ALG	00W18 27N48	D 9	20	13.4				A	100	5	0600—2400	
2	(19)	AIN EL HAMMAM	ALG	01E56 36N34	D 9	4	6.0				A	40		0600—2400	
3		V CISNEROS	AOE	16W00 23N40	A20	2	3.0				A	30	4	0000—2400	11/E
4		AFIF	ARS	43E00 24N00	C 9	20	13.4				A	120	4	0400—1400	
5		BRISBANE QLD	AUS	153E14 27S23	A20	5					B		3	0000—2400	
6	S	RENMARK SA	AUS	140E37 34S16	A20	2	3.0				A	37	2	1900—1400	
7	S	STREAKY BAY SA	AUS	134E11 32S45	A20	2					B		2	1900—1400	
8		ANGRA HEROISMO	AZR	27W11 38N42	A20	10	10.4				A	90	4	0000—2400	
9		DACCA	BGD	90E26 23N43	A20	1000	32.1				A	203	3	0000—1800	
10	S	ANKANG	CHN	109E05 32N44	A20	10	10.4				A	120	4	2000—1800	
11	S	DINGBIAN	CHN	107E35 37N35	A20	20	13.4				A	120	4	2000—1800	
12	S	LONG XIAN	CHN	106E51 34N49	A20	10	10.4				A	120	4	2000—1800	
13	S	MIAN XIAN	CHN	106E40 33N09	A20	10	10.4				A	120	4	2000—1800	
14	S	SHENMU	CHN	110E30 38N49	A20	20	13.4				A	120	4	2000—1800	
15	S	XIAN	CHN	108E54 34N12	A20	100	22.1				A	240	4	2000—1800	
16	S	ZHIDAN	CHN	108E46 36N50	A20	10	10.4				A	120	4	2000—1800	
17	S	ZIZHOU	CHN	110E02 37N37	A20	20	13.4				A	120	4	2000—1800	
18		AMPARAI	CLN	81E40 07N20	C10	50	17.4				A	108	5	0000—1800	
19		NICOSIA	CYP	33E23 35N09	C 9	600	28.2				A	100	4	0000—2400	
20		BERLIN	DDR	13E35 52N28	D 9	250	26.1				A	232	4	0000—2400	
21	S	BARROW	G	03W12 54N08	A20	1	2.0	30			B		4	0000—2400	
22	S	BEXHILL	G	00E27 50N50	A20	1	0.0				A	46	4	0000—2400	
23	S	BRIGHTON	G	00W15 50N50	A20	10	10.4				A	82	4	0000—2400	
24	S	BURGHEAD	G	03W28 57N42	A20	50	17.8				A	152	4	0000—2400	
25	S	DROITWICH	G	02W06 52N18	A20	150	24.0				A	213	3	0000—2400	
26	S	ENNISKILLEN	G	07W39 54N22	A20	1	0.0				A	45	4	0000—2400	
27	S	EXETER	G	03W31 50N41	A20	1	0.0				A	37	4	0000—2400	
28	S	FOLKESTONE	G	01E13 51N06	A20	1	0.0				A	46	3	0000—2400	
29	S	PLYMOUTH	G	04W08 50N24	A20	1	0.0				A	34	5	0000—2400	
30	S	POSTWICK	G	01E24 52N38	A20	10	12.0	107			B		3	0000—2400	
31	S	REDMOSS	G	02W05 57N07	A20	1	0.0				A	76	5	0000—2400	
32	S	STAGSHAW	G	02W01 55N02	A20	50	17.8				A	145	4	0000—2400	
33	S	START POINT	G	03W40 50N14	A20	50	22.0	340			B		4	0000—2400	
34	S	CALTANISSETTA	I	14E04 37N29	D 9	50	17.6				A	173	4	0000—2400	
35	S	MILANO	I	09E11 45N19	D 9	100	20.6				A	145	4	0000—2400	
36	S	PISTICCI	I	16E34 40N23	D 9	25	14.6				A	130	4	0000—2400	
37	S	VITERBO	I	12E07 42N24	D 9	10	10.4				A	108	5	0000—2400	
38		JUBBULPORE	IND	79E59 23N10	A20	300	26.9				A	220	3	0300—0900	25
39		LEH	IND	77E35 34N09	A20	300	26.9				A	220	4	0300—0900	25
40		RAJKOT	IND	70E41 22N22	A20	300	26.9				A	220	3	0000—2400	
41		MADIUN	INS	111E31 07S36	A18	10	10.4				A	108	4	2200—1700	
42		PALEMBANG	INS	104E45 02S59	A18	50	17.4				A	110	3	2200—1700	
43		SORONG	INS	131E17 00S50	A18	2	3.4				A	108	5	2000—1500	
44		TOKYO	J	139E25 36N05	A15	500	29.1				A	185	4	0000—2400	
45		NYONGBYON	KRE	125E47 39N49	A16	1	0.0				A	50		2000—1800	
46		TANANARIVE	MDG	47E31 18S54	C 9	100	22.1				A	234	4	0300—2000	
47		TUARAN	MLA	116E11 06N11	A20	10	10.6				A	150	5	0000—2400	
48		ULAN GOM	MNG	92E00 50N00	A18	5	7.4				A	120	5	2200—1500	
49		MAKURDI	NIG	08E31 07N44	C 9	50	17.4				A	100	4	0500—2300	
50		RUSSELL	NZL	174E08 35S14	A20	1	0.0				A	50	4	0000—2400	
51		GENERAL SANTOS	PHL	125E10 06N06	C 9	1	0.4				A	108	3	2100—1600	
52		ILOILO CITY	PHL	122E34 10N42	C 9	5	7.4				A	108	3	2100—1600	
53		TUGUEGARAO CAG	PHL	121E43 17N36	C 9	1	0.4				A	108	3	2100—1600	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	693	S	COIMBRA	POR	08W24 40N13	A20	10	10.4				A	90	4	0000—2400	
2	(19)	S	COVILHA	POR	07W29 40N14	A20	1	0.4				A	90	5	0000—2400	
3		S	VISEU	POR	07W55 40N38	A20	1	0.4				A	90	5	0000—2400	
4			VASLUI	ROU	27E44 46N40	D 9	2	3.4				A	101	4	0300—2300	
5			JUBA	SDN	31E35 04N50	A20	200	26.4				A	276	3	0400—2200	18/TGK
6			ZIGUINCHOR	SEN	16W15 12N35	C 9	20	13.4				A	100	5	0600—2400	
7			MOROGORO	TGK	37E30 06S50	C 9	100	20.4				A	91	4	0300—2100	18/SDN
8			SARABURI	THA	100E55 14N31	A20	20	13.4				A	108	5	0000—2400	
9			ANADYR	URS	177E22 64N50	A16	50	19.1				A	220	5	0000—2400	
10			KEMEROVO	URS	86E00 55N22	A18	150	25.2				A	257	4	0000—2400	
11			UFA	URS	55E57 54N43	C10	150	23.9				A	220	4	0000—2400	
12			BAN ME THUOT	VTN	108E09 12N38	C10	55	19.5				A	200	4	2200—1400	
13			KINSHASA	ZAI	15E15 04S20	C 9	600	28.2				A	96	8	1800—0800	



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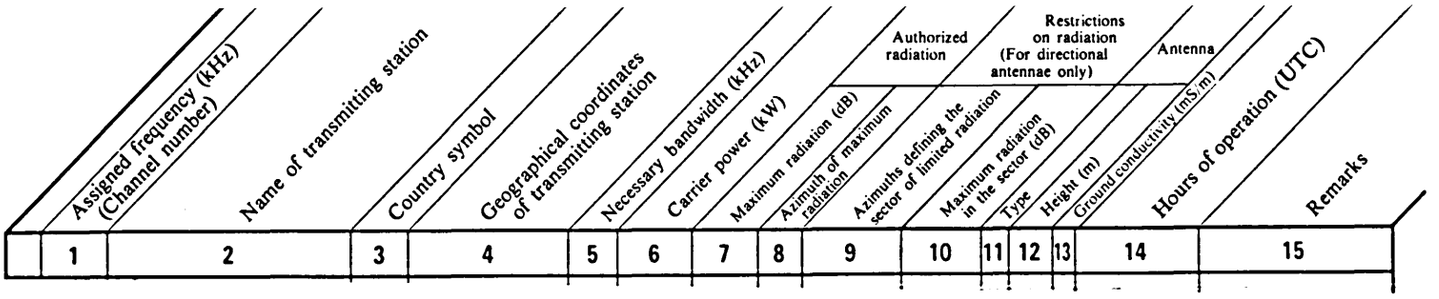
1	702		LUANDA	AGL	13E49 08S48	A20	5	7.4				A	110	3	0000—2400	
2	(20)		ANDORRA	AND	01E30 42N30	D 9	600	28.4				A	125	5	0000—2400	5/MRC 11/E 19
3			NUZLAH	ARS	39E13 21N39	C10	50	17.4				A	106	3	0300—2300	24
4			SYDNEY NSW	AUS	150E53 33S56	A20	50	19.1				A	226	4	1900—1400	
5			PARAKOU	BEN	02E38 09N20	C10	30	15.2				A	107	4	0500—2400	
6			ALXA ZUOQI	CHN	105E41 38N50	A20	1	0.4				A	60	4	2000—1800	
7			GEJIU	CHN	103E08 23N21	A20	0.1	−9.6				A	50	5	2000—1800	
8			LHASA	CHN	90E59 29N30	A20	5	7.6				A	120	5	2000—1800	
9		S	NANJING	CHN	118E54 32N06	A20	50	17.6				A	120	3	2000—1800	
10		S	NANTONG SHI	CHN	120E40 32N05	A20	20	13.6				A	120	3	2000—1800	
11		S	SUQIAN	CHN	118E18 33N57	A20	10	10.6				A	120	3	2000—1800	
12		S	YANCHENG	CHN	120E08 33N24	A20	20	13.6				A	120	3	2000—1800	
13			DIYAGAMA	CLN	79E58 06N50	C10	50	17.4				A	90	5	0000—1800	
14			HABOHO 2	COM	43E18 11S37	A20	50	17.6				A	120	1	0000—2400	
15		S	AACHEN STOLBRG	D	06E15 50N47	D 9	5	9.1				A	207	4	0400—1800	7
16		S	AACHEN STOLBRG	D	06E15 50N47	D 9	1.2	2.9				A	207	4	1800—0400	
17		S	AURICH	D	07E30 53N27	D 9	2	5.1				A	238	2	0000—2400	
18		S	FLENSBURG	D	09E27 54N47	D 9	5	9.1				A	222	3	0400—1800	7
19		S	FLENSBURG	D	09E27 54N47	D 9	1.2	2.9				A	222	3	1800—0400	
20		S	HERFORD	D	08E44 52N09	D 9	2	3.4				A	107	4	0000—2400	
21		S	LINGEN	D	07E21 52N32	D 9	2	3.4				A	105	3	0000—2400	
22		S	SIEGEN	D	08E03 50N53	D 9	2	3.4				A	104	4	0000—2400	
23			EL KHARGA	EGY	30E33 25N30	D 9	20	13.6				A	125	4	0400—2400	24
24			AOSTA	I	07E19 45N42	D 9	10	10.4				A	97	5	0400—1700	7
25			CAMPOBASSO	I	14E39 41N33	D 9	10	10.6				A	139	5	0400—1700	7
26			GROSSETO	I	11E07 42N45	D 9	50	17.6				A	171	3	0400—1700	7
27			AJMER	IND	74E42 26N27	A20	300	26.9				A	215	4	0300—0900	25
28			JULLUNDUR	IND	75E18 31N19	A20	200	25.1				A	210	3	0400—0900	25
29			JULLUNDUR	IND	75E18 31N19	A20	100	22.0	195	305—335	13.0	B		3	0900—0400	
30			MYSORE	IND	76E42 12N18	A20	300	25.2				A	115	3	0300—1000	25
31			RASHT	IRN	49E40 37N10	A20	400	29.0	350	30—310	13.0	B		2	0200—1500	
32			HIROSHIMA	J	132E28 34N26	A15	10	10.6				A	137	4	0000—2400	
33			KITAMI	J	144E14 43N57	A15	10	10.6				A	136	4	0000—2400	
34			MERU	KEN	37E37 00N05	C 9	100	20.6				A	130	4	0000—2400	
35			CHONGJIN	KRE	129E41 41N55	A16	50	19.0				B		5	2000—1800	
36			LUANG PRABANG	LAO	102E08 19N51	A20	2	3.4				A	100	5	2300—1400	
37			MONTE CARLO	MCO	07E25 43N47	D 9	300	28.0	265	20— 60	11.0	B		6	0000—2400	
38			KOTA BAHRU	MLA	102E14 06N06	A20	20	13.4				A	100	5	0000—2400	
39			BAMAKO	MLI	08W02 12N41	C 9	100	22.1				A	213		0600—2400	
40			DALANTSZADAGAD	MNG	104E30 43N38	A18	5	7.6				A	120	4	2200—1500	
41			SEBAA AIOUN	MRC	05W23 33N53	A20	140	22.1				A	175	4	0600—2400	5/AND 24
42			MINNA	NIG	06E33 09N37	C 9	20	13.4				A	80	4	0500—2300	
43			FINNMARK	NOR	29E45 70N04	D 9	20	15.1				A	200	3	0000—2400	
44		S	PAENGAROA	NZL	176E25 37S49	A20	5	7.6				A	150	3	0000—2400	
45		S	TAKAPAU	NZL	176E18 40S02	A20	5	7.0				A	50	4	0000—2400	
46			MASIRAH 1	OMA	58E54 20N41	A20	1500	35.0	90			B		4	0000—2400	11/G
47			MASIRAH 2	OMA	58E54 20N41	A20	1500	35.0	270			B		4	0000—2400	11/G
48			BUTUAN AGUSAN	PHL	125E30 08N56	C 9	5	7.4				A	106	3	2100—1600	
49			VALENZUELA BUL	PHL	120E58 14N41	D 9	50	19.0	155	65—245	2.0	B		3	2100—1600	
50			HOMS 2	SYR	36E42 34N47	A20	20	13.4				A	100	5	0300—2400	
51		S	BAN BYTRICA	TCH	19E08 48N40	C 9	400	29.4				A	250	5	0000—2400	
52		S	BRATISLAVA M	TCH	17E10 48N10	C 9	14	11.9				A	60	4	0000—2400	
53		S	LIPT MIKULAS	TCH	19E35 49N05	C 9	50	17.4				A	100	5	0000—2400	
54		S	ORAVA	TCH	19E20 49N13	C 9	14	11.9				A	60	5	0000—2400	



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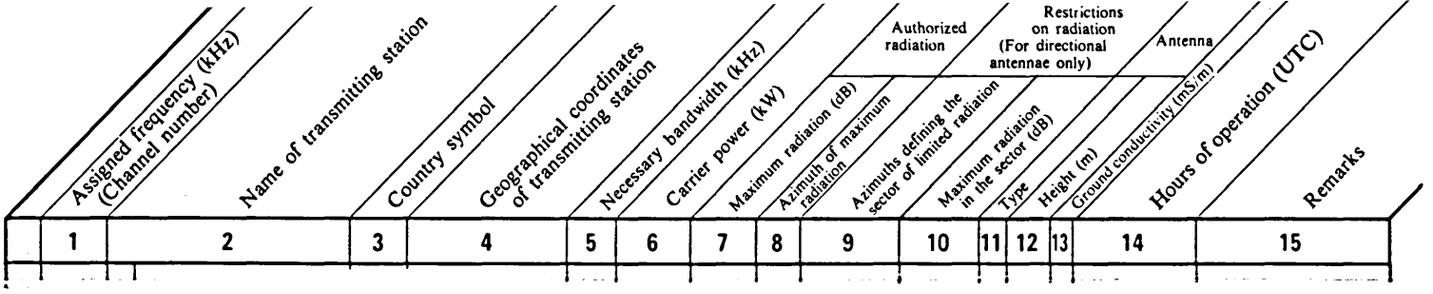
1	702	S	PRESOV	TCH	21E16 48N57	C 9	400	29.4				A	250	5	0000—2400	
2	(20)	S	RIM SOBOTA	TCH	20E00 48N23	C 9	50	17.4				A	100	5	0000—2400	
3		S	TATRY	TCH	20E18 49N03	C 9	14	11.9				A	60	5	0000—2400	
4		S	USTI NAD LABEM	TCH	14E02 50N39	C 9	14	11.9				A	60	5	0000—2400	
5		S	ZILINA	TCH	18E45 49N13	C 9	14	11.9				A	60	5	0000—2400	
6			LOPBURI	THA	100E49 14N46	A20	10	10.4				A	107	5	0000—2400	
7			UMRANIYE	TUR	29E06 41N02	D 9	150	23.9				A	220	3	0200—2300	
8			DUCHANBE	URS	68E50 38N40	A16	50	19.1				A	220	4	0000—2400	
9			KIRENSK	URS	108E06 57N47	A18	50	19.1				A	220	4	0000—2400	
10			CELJE	YUG	15E16 46N14	D 9	2	3.4				A	60	5	0000—2400	
11			SABAC	YUG	19E41 44N45	D 9	10	10.4				A	95	3	0700—1500	
12			VINICA	YUG	22E23 41N53	D 9	1	0.4				A	40	5	0800—1500	7
13			BOENDE	ZAI	20E57 00S19	C 9	2	3.4				A	60	8	0000—2400	



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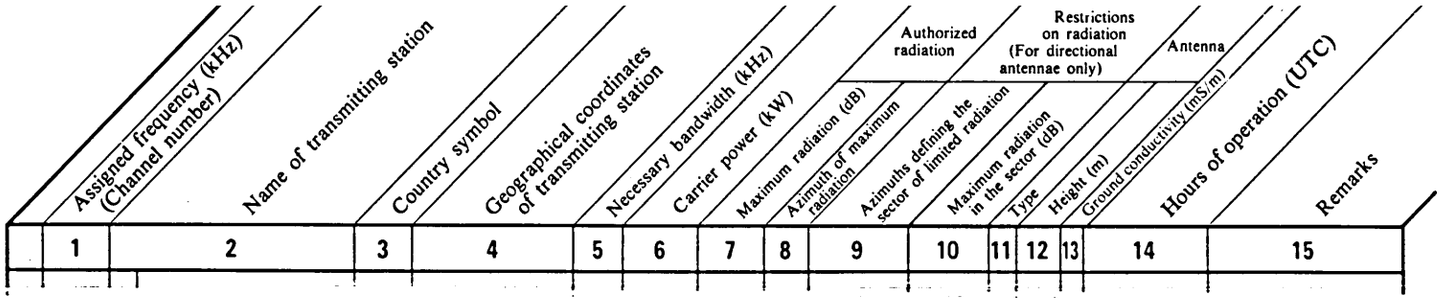
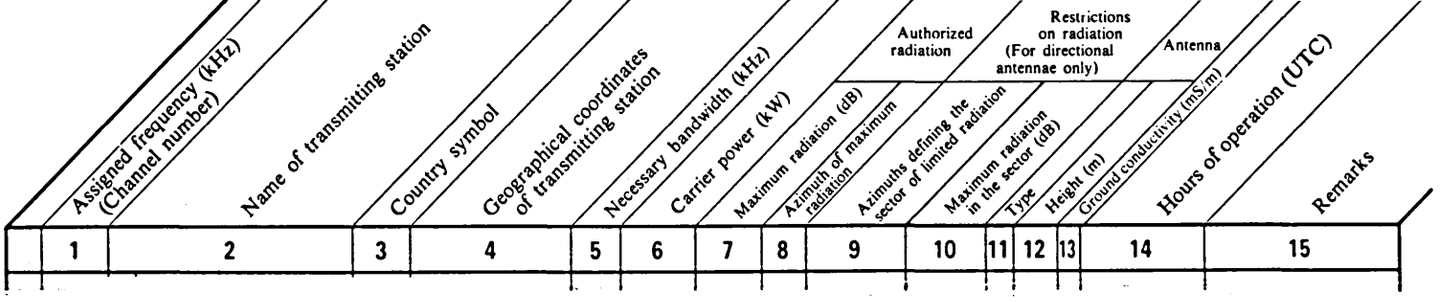
1	711		COOTAMUND NSW	AUS	148E02 34S38	A20	10					B		4	1900—1400	
2	(21)		KELSO TAS	AUS	146E47 41S06	A20	10					B		4	1900—1400	
3			S GEORGE QLD	AUS	148E40 28S00	A20	10					B		3	1900—1400	
4			SG HANCHING	BRU	114E58 04N57	A20	20	13.0				A	24	4	2200—1500	
5		S	GONGHE	CHN	100E40 36N18	A20	100	23.4				A	240	5	2000—1800	
6		S	MAQEN	CHN	100E09 34N22	A20	20	13.6				A	120	5	2000—1800	
7		S	MENYUAN	CHN	101E37 37N23	A20	10	10.6				A	120	5	2000—1800	
8			WUHU SHI	CHN	118E24 31N18	A20	5	7.6				A	120	4	2000—1800	
9			XISHADAO	CHN	112E20 16N50	A20	0.1	−9.6				A	50	4	2000—1800	
10			MAHO	CLN	80E15 07N44	C10	50	17.4				A	117	5	0000—1800	
11		S	BOPFINGEN	D	10E21 48N51	D 9	0.2	−7.0				A	15	4	0000—2400	
12		S	HEIDELBERG DOS	D	08E40 49N27	D 9	5	7.0				A	51	4	0000—2400	
13		S	HEILBRONN	D	09E12 49N12	D 9	5	7.4				A	74	4	0000—2400	
14		S	ULM JUNGINGEN	D	09E59 48N27	D 9	5	7.0				A	51	4	0000—2400	
15		S	WERTHEIM	D	09E31 49N45	D 9	0.2	−7.0				A	40	4	0000—2400	
16			ABU ZABAL	EGY	31E22 30N16	D 9	200	23.4				A	80	3	0000—2400	24
17			RENNES	F	01W29 47N51	D 9	300	26.9				A	220	3	0000—2400	
18			NAULU REWA	FJI	178E32 18S04	A20	10	10.0				A	45	5	1700—1200	
19			BOLOGNA	I	11E31 44N31	D 9	100	22.1				A	198	3	0400—1700	26/F
20			NEPI	I	12E30 42N10	D 9	100	22.1				A	211	4	0400—1700	26/F
21			ALLAHABAD	IND	81E54 25N28	A20	300	26.9				A	215	3	0300—0900	25
22			SANGLI	IND	74E36 16N53	A20	300	26.9				A	215	3	0300—1000	25
23			SILIGURI	IND	88E30 26N42	A20	200	25.0	175	25— 75	17.0	B		4	0000—2400	
24			ATAMBUA	INS	124E49 09S12	A18	2	3.0				A	50	7	2100—1600	
25			KHORRAMABAD	IRN	48E22 33N29	A20	20	13.4				A	90	3	0200—1600	
26			KHORRAMABAD	IRN	48E22 33N29	A20	10	10.4				A	90	3	1600—2200	
27			EZYON	ISR	34E57 29N35	D 9	30	20.0	200			B		1	0000—2400	33
28			JERUSALEM	ISR	35E13 31N46	D 9	10	10.0				A	45	3	0000—2400	33
29			SORAE	KOR	126E47 37N24	C10	500	27.6				A	160	5	0000—2400	
30			TAETAN	KRE	125E18 38N04	A16	5	7.0				A	50		2000—1800	
31			MONROVIA	LBR	10W38 06N14	A20	100	23.0	36			B		5	0500—2400	18/MRC
32		S	GHADAMES	LBY	09E30 30N08	D 9	50	17.4				A	82	4	0400—2200	24
33		S	JEFREN	LBY	12E31 32N03	D 9	50	19.1				A	210	6	0400—2200	24
34		S	SEBHA	LBY	14E25 27N04	D 9	50	19.1				A	210	4	0400—2200	24
35			TARFAYA	MRC	12W55 27N55	C 9	600	30.8	170	320— 30	24.8	B		5	0500—0300	18/LBR 24
36			AKURE	NIG	05E15 07N15	C 9	10	10.4				A	100	4	0400—2300	
37			TAUPO	NZL	176E04 38S40	A20	2	3.0				A	50	7	0000—2400	
38			MULTAN II	PAK	71E24 30N10	A20	100	24.0	140	330	14.0	B		4	0000—2000	
39			DAVAO CITY	PHL	125E36 07N04	C 9	5	7.4				A	105	3	2100—1600	
40			ILAGAN ISABELA	PHL	121E53 17N07	C 9	1	0.4				A	105	3	2100—1600	
41			TACLOBAN LEYTE	PHL	125E00 11N13	C 9	1	0.4				A	105	3	2100—1600	
42			SIGHET	ROU	23E56 47N46	C 9	30	15.2				A	105	5	0000—2400	
43			KIGOMA	TGK	29E40 05S00	C 9	100	20.4				A	115	4	0300—2100	
44		S	BANGKOK	THA	100E36 13N41	A20	20	13.4				A	102	2	0000—2400	
45		S	CHIANG MAI	THA	98E59 18N51	A20	20	13.4				A	102	5	0000—2400	
46			UBON	THA	104E52 15N13	A20	50	20.0	100			B		4	0000—2400	
47			DONETSK	UKR	37E45 47N57	A16	150	23.9				A	220	4	0000—2400	
48		S	BLAGOVECHTCHEN	URS	127E33 50N16	A16	50	19.1				A	220	4	0000—2400	
49			BUKHARA	URS	64E30 39N40	A18	25	16.1				A	220	4	0000—2400	
50		S	KOKHTLA IARVE	URS	27E10 59N20	A16	5	9.1				A	220	4	0000—2400	
51		S	PIARNU	URS	24E33 58N23	A16	5	9.1				A	220	4	0000—2400	
52		S	TALLIN	URS	24E50 59N18	A16	50	19.1				A	220	4	0000—2400	
53		S	TARTU	URS	26E35 58N23	A16	5	9.1				A	220	4	0000—2400	
54		S	VLADIVOSTOK	URS	131E53 43N07	C 9	150	24.8	50	210—240	11.0	B		4	0000—2400	

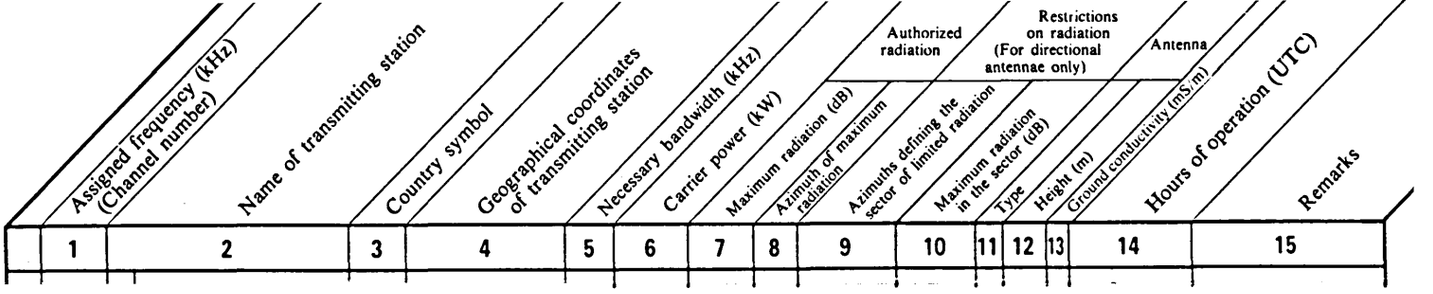


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	711	MOCHA	YEM	43E25 13N20	C 9	300	30.0	180			B		3	0300—2200	24
2	(21)	NIS	YUG	21E54 43N19	D 9	100	20.6				A	132	4	0600—1700	15
3		NIS	YUG	21E54 43N19	D 9	20	13.6				A	132	4	1700—0600	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	720		ARMIDALE NSW	AUS	151E40 30S30	A20	0.1	−10.0				A	24	4	1900−1400	
2	(22)	S	ATHERTON QLD	AUS	145E33 17S18	A20	4	6.4				A	61	4	1900−1400	
3		S	MACKAY QLD	AUS	149E13 21S06	A20	2	3.0				A	52	3	1900−1400	
4			MURWILLUMB NSW	AUS	153E29 28S15	A20	0.4	−4.0				A	52	4	1900−1400	
5			OMEO VIC	AUS	147E38 37S09	A20	2					B		2	1900−1400	
6			PERTH WA	AUS	115E49 31S51	A20	50	19.1				A	177	4	2100−1600	
7		S	ALXA ZUOQI	CHN	105E41 38N50	A20	5	7.6				A	120	4	2000−1800	
8		S	ANTU	CHN	128E22 42N33	A20	10	10.6				A	120	4	2000−1800	
9		S	BAOAN	CHN	114E05 22N38	A20	10	10.6				A	120	4	2000−1800	
10		S	BEIJING	CHN	116E27 39N57	A20	150	22.0	240	20−100	16.0	B		4	2000−1800	
11		S	BIYANG	CHN	113E18 32N43	A20	5	7.6				A	120	4	2000−1800	
12		S	CANGZHOU	CHN	116E51 38N18	A20	10	10.6				A	120	4	2000−1800	
13		S	CHALING	CHN	113E33 26N48	A20	10	10.6				A	120	4	2000−1800	
14		S	CHANGDE SHI	CHN	111E42 29N02	A20	20	13.6				A	120	4	2000−1800	
15		S	CHANGLING	CHN	123E59 44N16	A20	10	10.6				A	120	4	2000−1800	
16		S	CHENGKOU	CHN	108E47 31N57	A20	5	7.6				A	120	4	2000−1800	
17		S	CHONGAN	CHN	118E01 27N43	A20	10	10.6				A	120	4	2000−1800	
18		S	DAAN	CHN	124E18 45N30	A20	10	10.6				A	120	4	2000−1800	
19		S	ERENHOT	CHN	112E00 43N39	A20	50	17.6				A	120	4	2000−1800	
20		S	FENGJIE	CHN	109E31 31N04	A20	5	7.6				A	120	4	2000−1800	
21		S	GAR	CHN	79E58 32N12	A20	10	10.6				A	120	5	2000−1800	
22		S	GARZE	CHN	99E58 31N38	A20	5	7.6				A	120	4	2000−1800	
23		S	GUI XIAN	CHN	109E36 23N06	A20	40	16.6				A	120	4	2000−1800	
24		S	GUYUAN	CHN	106E22 36N01	A20	10	10.6				A	120	4	2000−1800	
25		S	HORQIN YZH QI	CHN	121E24 45N07	A20	10	10.6				A	120	4	2000−1800	
26		S	HUAIJI	CHN	112E11 23N55	A20	10	10.6				A	120	4	2000−1800	
27		S	HUNCHUN	CHN	130E21 42N52	A20	5	7.6				A	120	4	2000−1800	
28		S	HUNJIANG	CHN	126E23 41N54	A20	20	13.6				A	120	4	2000−1800	
29		S	JIANGHUA	CHN	111E46 24N57	A20	10	10.6				A	120	4	2000−1800	
30		S	JIANNING	CHN	116E50 26N53	A20	10	10.6				A	120	4	2000−1800	
31		S	JILIN SHI	CHN	126E30 43N48	A20	10	10.6				A	120	4	2000−1800	
32		S	JINHU	CHN	119E01 33N02	A20	5	7.6				A	120	3	2000−1800	
33		S	KANGDING	CHN	102E00 30N00	A20	5	7.6				A	120	4	2000−1800	
34		S	KIANGCHENG	CHN	99E42 28N55	A20	5	7.6				A	120	4	2000−1800	
35		S	LESHAN	CHN	103E40 29N37	A20	5	7.6				A	120	4	2000−1800	
36		S	LHAZE	CHN	87E50 29N05	A20	10	10.6				A	120	5	2000−1800	
37		S	LHORONG	CHN	95E43 30N48	A20	50	17.6				A	120	5	2000−1800	
38		S	LIANYUNGANG	CHN	119E10 34N36	A20	20	13.6				A	120	3	2000−1800	
39		S	LINGLING	CHN	111E37 26N13	A20	10	10.6				A	120	4	2000−1800	
40		S	LIUZHOU	CHN	109E12 24N18	A20	0.5	−2.4				A	120	4	2000−1800	
41		S	LIYANG	CHN	119E29 31N26	A20	5	7.6				A	120	3	2000−1800	
42		S	LONGYAN	CHN	117E02 25N07	A20	10	10.6				A	120	4	2000−1800	
43		S	LUFENG	CHN	115E38 22N57	A20	20	13.6				A	120	4	2000−1800	
44		S	LUOYANG	CHN	112E24 34N42	A20	20	13.6				A	120	4	2000−1800	
45		S	LUZHOU	CHN	105E21 28N47	A20	10	10.6				A	120	4	2000−1800	
46		S	MAOMING	CHN	110E51 21N56	A20	50	17.6				A	120	4	2000−1800	
47		S	MARKAM	CHN	98E10 29N30	A20	10	10.6				A	120	5	2000−1800	
48		S	NAGQU	CHN	92E02 31N25	A20	50	17.6				A	120	5	2000−1800	
49		S	NANCHONG SHI	CHN	106E05 30N48	A20	20	13.6				A	120	4	2000−1800	
50		S	NANG XIAN	CHN	93E10 29N05	A20	10	10.6				A	120	5	2000−1800	
51		S	NANPING	CHN	118E12 26N45	A20	10	10.6				A	120	4	2000−1800	
52		S	NUNGNIN SUM	CHN	118E58 45N40	A20	20	13.6				A	120	4	2000−1800	
53		S	PINGDINGSHAN	CHN	113E17 33N42	A20	10	10.6				A	120	4	2000−1800	
54		S	PINGXIANG 1	CHN	106E45 22N11	A20	10	10.6				A	120	4	2000−1800	



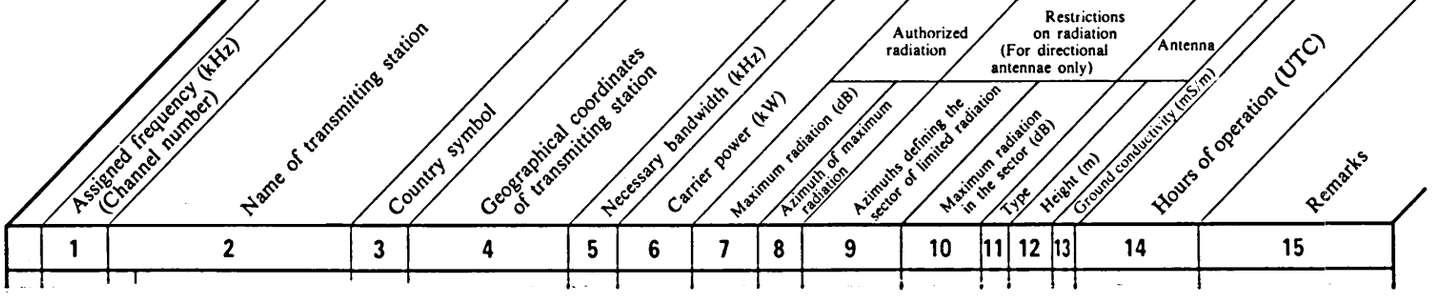
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	720	S	PINGYU	CHN	114E38 32N58	A20	5	7.6				A	120	4	2000—1800	
2	(22)	S	QINHUANGDAO	CHN	119E32 39N55	A20	10	10.6				A	120	4	2000—1800	
3		S	QINZHOU	CHN	108E37 21N58	A20	10	10.6				A	120	4	2000—1800	
4		S	SERXU	CHN	98E05 32N58	A20	5	7.6				A	120	4	2000—1800	
5		S	SHANGSHUI	CHN	114E38 33N38	A20	5	7.6				A	120	4	2000—1800	
6		S	SHIJIAZHUANG	CHN	114E40 37N50	A20	50	17.6				A	120	4	2000—1800	
7		S	SHUANGFENG	CHN	112E11 27N27	A20	5	7.6				A	120	4	2000—1800	
8		S	SIPING	CHN	124E20 43N10	A20	5	7.6				A	120	4	2000—1800	
9		S	TONGCHUAN	CHN	109E09 35N06	A20	10	10.6				A	120	4	2000—1800	
10		S	TONGLIAO SHI	CHN	122E13 43N40	A20	20	13.6				A	120	4	2000—1800	
11		S	WEI XIAN	CHN	115E15 36N58	A20	5	7.6				A	120	4	2000—1800	
12		S	WUQI	CHN	108E11 36N55	A20	10	10.6				A	120	4	2000—1800	
13		S	XANZA	CHN	88E42 30N54	A20	50	17.6				A	120	5	2000—1800	
14		S	XIAMEN	CHN	118E18 24N24	A20	10	10.6				A	120	4	2000—1800	
15		S	XINXIANG SHI	CHN	113E52 35N18	A20	10	10.6				A	120	4	2000—1800	
16		S	XIXIA	CHN	111E26 33N24	A20	5	7.6				A	120	4	2000—1800	
17		S	XUPU	CHN	110E35 27N55	A20	10	10.6				A	120	4	2000—1800	
18		S	XUZHOU	CHN	117E20 34N14	A20	10	10.6				A	120	3	2000—1800	
19		S	YANAN	CHN	109E29 36N37	A20	10	10.6				A	120	4	2000—1800	
20		S	YONGSHOU	CHN	108E08 34N41	A20	10	10.6				A	120	4	2000—1800	
21		S	YU XIAN	CHN	114E34 39N50	A20	10	10.6				A	120	4	2000—1800	
22		S	YULIN 1	CHN	109E36 38N18	A20	20	13.6				A	120	4	2000—1800	
23		S	ZHAOJUE	CHN	102E49 28N02	A20	5	7.6				A	120	4	2000—1800	
24		S	ZHENAN	CHN	109E10 33N27	A20	10	10.6				A	120	4	2000—1800	
25		S	ZHONGBA	CHN	84E12 29N39	A20	10	10.6				A	120	5	2000—1800	
26		S	ZHONGWEI	CHN	105E11 37N30	A20	50	17.6				A	120	4	2000—1800	
27		S	ZIGONG	CHN	104E40 29N27	A20	1	0.6				A	120	4	2000—1800	
28			S CRUZ TENERIF	CNR	16W17 28N27	D 9	20	13.2				A	64	4	0000—2400	
29			GAGNOA	CTI	05W56 06N07	C 9	30	16.9				A		7	0600—2400	
30			ZYYI	CYP	33E19 34N43	A20	500	34.0	90			B		4	0000—2400	11/G
31			HOLZKIRCHEN	D	11E43 47N52	D 9	150	28.7	40	110—330	6.7	B		4	0400—0100	
32			LANGENBERG	D	07E08 51N21	D 9	200	23.4				A	95	4	0800—1700	7
33			ADDIS ABABA	ETH	38E43 09N17	C 9	10	10.4				A	107	3	0400—2100	
34			COVENTRY	G	01W23 52N27	A20	0.5	−2.6				A	58	3	0000—2400	
35		S	LISNAGARVEY	G	06W04 54N30	A10	10	10.0				A	46	4	0000—2400	
36			LONDON	G	00W11 51N28	A20	0.5	−2.6				A	80	4	0000—2400	
37		S	LONDONDERRY	G	07W22 55N00	A20	0.3	−5.0				A	46	5	0000—2400	
38			BOOUE	GAB	11E56 00S01	C 9	10	12.1				A		5	0400—2400	
39			AGANA	GUM	144E47 13N27	C10	10	10.4				A	105	3	0000—2400	
40			BARI	I	16E52 41N03	D 9	100	22.1				A	208	4	0400—1700	7
41			PERUGIA	I	12E23 43N07	D 9	10	10.6				A	139	5	0400—1700	7
42			S REMO	I	07E48 43N49	D 9	10	10.4				A	104	5	0400—1700	7
43			TRIESTE	I	13E46 45N40	D 9	10	10.4				A	107	4	0400—1700	7
44			JAIPUR	IND	75E50 26N54	A20	300	26.9				A	210	4	0300—0900	25
45			MADRAS	IND	80E17 13N04	C 9	300	27.0	255	0— 40	19.0	B		3	0000—2400	
46			SAMBALPUR	IND	84E01 21N28	A20	300	26.9				A	210	3	0300—0900	25
47			TEZU	IND	96E15 27N50	A20	20	15.1				A	210	4	0300—0900	25
48			AMBON	INS	128E10 03S41	A18	10	10.4				A	93	4	2000—1500	
49			TAYBAD	IRN	60E48 34N43	A20	400	29.0	100	220—340		B		3	0200—1600	
50			TAYBAD	IRN	60E48 34N43	A20	200	26.0	100	220—340		B		3	1600—2200	
51			KITAKYUSHU	J	130E51 33N53	A15	1	0.4				A	67	5	0000—2400	
52			KUMANO	J	136E05 33N52	A15	0.1	−10.0				A	53	5	0000—2400	
53			MIHARA HIROSHI	J	133E03 34N23	A15	0.1	−9.6				A	71	5	0000—2400	
54			SHOBARA	J	133E01 34N51	A15	0.1	−10.0				A	50	5	0000—2400	



720 KHZ (22)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	720		TAKAYAMA	J	137E16 36N09	A15	0.1	−9.6				A	67	5	0000—2400	
2	(22)		GARISSA	KEN	39E40 00S25	C 9	10	10.4				A	100	4	0000—2400	
3			KORYUNG	KOR	128E16 35N45	C10	1	0.4				A	80	6	0000—2400	
4			WIWON	KRE	126E02 40N50	A16	500	29.0				B		7	2000—1000	
5			WIWON	KRE	126E02 40N50	A16	250	26.0				B		7	1000—1800	
6			FARAFANGANA	MDG	47E50 22S49	C 9	20	15.1				A	208	4	0300—2000	
7			KAJANG	MLA	101E46 02N59	A20	200	23.6				A	150	5	0000—2400	
8			BOGHE	MTN	14W14 16N36	B20	20	13.4				A	105		0600—2400	24
9			ABA	NIG	07E23 05N05	C 9	50	17.4				A	105	4	0500—2300	
10			INVERCARGILL	NZL	168E37 46S19	A20	20	13.6				A	150	3	0000—2400	
11			BACOLOD CITY	PHL	122E57 10N41	C 9	5	7.4				A	104	3	2100—1600	
12			INFANTA QUEZON	PHL	121E39 14N45	C 9	5	7.4				A	104	3	2100—1600	
13		S	AZURARA	POR	08W43 41N20	A20	100	20.6				A	140	4	0000—2400	
14		S	BEJA	POR	07W52 37N59	A20	1	0.4				A	90	3	0000—2400	
15		S	CASTELO BRANCO	POR	07W31 39N49	A20	10	10.4				A	90	4	0000—2400	
16		S	ELVAS	POR	07W07 38N53	A20	10	10.4				A	90	5	0000—2400	
17		S	FARO	POR	07W53 37N01	A20	10	10.4				A	90	3	0000—2400	
18		S	GUARDA	POR	07W14 40N22	A20	10	10.4				A	90	5	0000—2400	
19		S	MIRANDELA	POR	07W10 41N31	A20	10	10.4				A	90	5	0000—2400	
20		S	ARGEL	ROU	25E28 47N45	A20	1	0.4				A	98	5	0300—2300	
21		S	BAILESTI	ROU	24E30 44N02	D 9	2	3.4				A	98	2	0300—2300	
22		S	BORSA	ROU	24E50 47N34	A20	1	0.4				A	98	5	0300—2300	
23		S	BRASOV	ROU	25E35 45N40	A20	2	3.4				A	98	4	0300—2300	
24		S	CLUJ	ROU	23E34 46N42	A20	2	3.4				A	98	4	0300—2300	
25		S	HERCULANE	ROU	22E28 44N56	A20	1	0.4				A	98	5	0300—2300	
26		S	ISACCEA	ROU	28E20 45N15	A20	1	0.4				A	98	4	0300—2300	
27		S	PITESTI	ROU	24E50 44N52	A20	2	3.4				A	98	3	0300—2300	
28		S	REGHIN	ROU	24E24 46N50	A20	1	0.4				A	98	3	0300—2300	
29		S	RIMNICUL SARAT	ROU	27E05 45N24	A20	2	3.4				A	98	4	0300—2300	
30		S	TIMISOARA	ROU	21E14 45N45	A20	2	3.4				A	98	4	0300—2300	
31			KIRUNA	S	20E55 67N38	D 9	600	31.0	345	140—190	25.0	B		6	0000—2400	
32			KIRUNA	S	20E55 67N38	D 9	600	31.0		150—180	22.0	B				
33			ATI	TCD	18E20 13N13	C 9	10	12.1				A			0400—2300	
34			MWANZA	TGK	32E52 02S28	C 9	50	17.4				A	105	4	0300—2100	
35			SFAX	TUN	10E53 34N58	D 9	200	23.0	200	340— 70	10.0	B		4	0000—2400	24
36			IUJNSAKHALINSK	URS	143E00 47N00	A16	500	32.0	60	220—270	7.0	B		4	0000—2400	
37			KRASNOVODSK	URS	52E48 40N00	A18	50	22.0	0	150—220	6.0	B		4	0000—2400	
38		S	MAKSATIKHA	URS	35E53 57N46	A18	5	9.1				A	220	4	0000—2400	
39		S	SELIJAROVO	URS	33E31 56N49	A18	5	9.1				A	220	4	0000—2400	
40			HUE	VTN	107E36 16N27	C10	10	10.4				A	100	4	2200—1500	
41			TITOV VELES	YUG	21E47 41N43	D 9	1	0.4				A	40	4	0800—1500	7
42			ZAMBEZI	ZMB	23E07 13S32	A20	10	12.1				A	177	4	0200—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	729		ADELAIDE SA	AUS	138E31 35S06	A20	50	17.6				A	168	2	2000—1500	
2	(23)	S	DINGNAN	CHN	115E01 24N45	A20	20	13.6				A	120	4	2000—1800	
3		S	FUZHOU 2	CHN	116E19 28N00	A20	20	13.6				A	120	4	2000—1800	
4		S	JIAN SHI	CHN	114E59 27N08	A20	100	23.4				A	240	4	2000—1800	
5		S	JINGDEZHEN	CHN	117E11 29N17	A20	50	17.6				A	120	4	2000—1800	
6			KARAMAY	CHN	85E00 45N32	A20	1	0.4				A	70	4	2000—1800	
7		S	RUIJIN	CHN	116E00 25N50	A20	50	17.6				A	120	4	2000—1800	
8		S	XIUSHUI	CHN	114E34 29N03	A20	20	13.6				A	120	4	2000—1800	
9			RATNAPURA	CLN	80E22 06N40	C10	50	17.6				A	140	7	0000—1800	
10			PUTBUS	DDR	13E29 54N22	D 9	10	10.0				A	50	4	0000—2400	
11			TAMPERE 2	FNL	23E49 61N29	D 9	45	17.1				A	150	5	0000—2400	
12			ATHINAI	GRC	23E42 38N02	A 9	1000	32.1				A	220	5	0400—2400	5/NIG 18/UAE
13			DEDOUGOU	HVO	03W28 12N57	A20	30	18.2				A	256	4	0000—2400	
14			GAUHATI	IND	91E47 26N11	A20	150	22.4				A	120	3	0300—0900	25
15			GAUHATI	IND	91E47 26N11	A20	75	19.4				A	120	3	0900—0300	
16			SURAT	IND	72E52 21N12	A20	300	26.9				A	210	3	0300—0900	25
17			TRIVANDRUM	IND	76E59 08N29	A20	300	26.9				A	210	4	0300—1000	25
18		S	CORK	IRL	08W38 51N56	A20	10	10.0				A	150	4	0000—2400	
19		S	KILLARNEY	IRL	09W30 52N03	A20	100	20.6				A	150	4	0000—2400	
20			NAGOYA	J	136E58 35N03	A15	50	17.4				A	89	4	0000—2400	
21			SEPO	KRE	127E22 38N37	A16	1	0.0				A	50		2000—1800	
22			KUCHING	MLA	110E20 01N33	A20	20	13.6				A	137	5	2200—1600	
23			BOUARFA	MRC	01W49 32N39	A18	100	22.1				A	210	5	0600—2400	24
24			NOUMEA 2	NCL	166E29 22S18	A20	100	25.0	80	230—280	12.0	B		3	0000—2400	
25			KANO	NIG	08E42 12N02	C 9	100	20.4				A	90	4	0500—2300	5/GRC
26			BUTAWAL	NPL	83E29 27N42	A20	1	0.4				A	60	4	2200—1900	
27			PESHAWAR	PAK	71E35 34N01	A20	10	10.4				A	60	4	0000—2000	
28			CAGAYAN DE ORO	PHL	124E38 08N28	C 9	5	7.4				A	103	3	2100—1600	
29			LEGASPI CITY	PHL	123E45 13N08	C 9	1	0.4				A	103	3	2100—1600	
30			S FERNANDO LU	PHL	120E19 16N36	C 9	5	7.4				A	103	3	2100—1600	
31			S ANDRE 2	REU	55E40 20S55	A20	20	15.1				A	220	5	0000—2400	
32			ZALINGEI	SDN	23E33 12N57	A20	200	26.4				A	247	4	0600—1600	24
33			GODERICH	SRL	13W17 08N30	C 9	20	13.0				A	40	2	0500—2400	
34			N RATCHASIMA	THA	102E00 14N56	A20	50	19.1				A	180	2	0000—2400	
35			SADIYAT	UAE	54E27 24N34	C 9	750	29.2				A	103	5	0200—2200	18/GRC 24
36			BUTEBO	UGA	33E55 01N10	C 9	100	20.4				A	103	4	0300—2100	
37			ACHKHABAD	URS	58E23 37N57	C10	50	21.0	330	120—150	7.0	B		4	0000—2400	
38			BRATSK	URS	102E38 56N12	A18	150	23.9				A	220	4	0000—2400	
39			KIROV	URS	49E41 58N36	A18	50	19.1				A	220	4	0000—2400	
40			SREDNE KOLYMSK	URS	154E49 67N27	A16	100	22.1				A	220	5	0000—2400	
41			MAGLAJ	YUG	18E07 44N33	D 9	1	0.4				A	38	4	0800—1500	7
42			LIVINGSTONE	ZMB	25E50 17S50	A20	10	10.6				A	164	3	0200—2100	

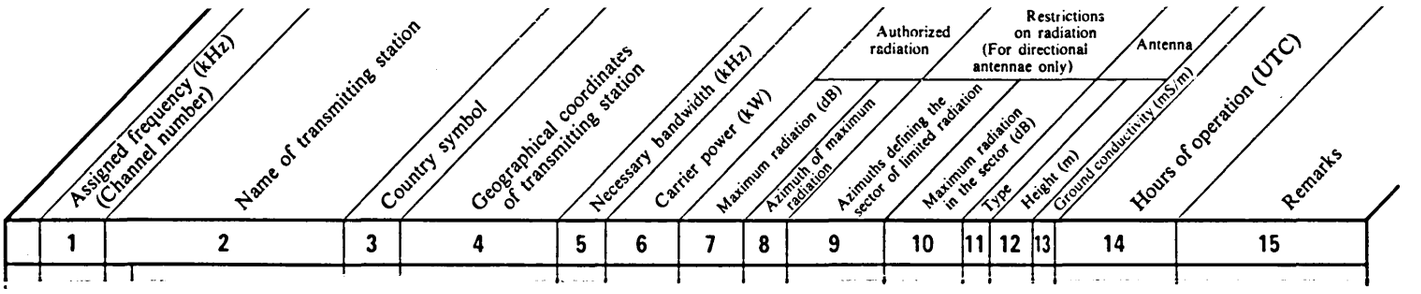


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	738		IN AMENAS	ALG	09E38 28N03	D 9	400	31.0	90	230–310	18.0	B		5	0000–2400	24
2	(24)		DHAHRAN	ARS	50E06 26N18	A20	0.1	–10.0				A	15	3	0100–2400	24
3		S	GRAFTON NSW	AUS	153E07 29S29	A20	50	17.6				A	152	3	1900–1400	
4		S	ORANGE NSW	AUS	148E57 33S12	A20	50	17.0				A	55	4	1900–1400	
5			MUHINGA	BDI	30E20 02S58	C 9	10	10.4				A	101	4	0300–2400	
6			ATCHERIGBE	BEN	02E08 07N33	C10	5	7.4				A	102	4	0500–2400	
7			PHNOM PENH	CBG	104E55 11N34	C10	1	0.4				A	100	3	0000–2400	
8		S	BAICHENG	CHN	122E50 45N37	A20	20	13.6				A	120	4	2000–1800	
9		S	CHANGCHUN	CHN	125E24 43N48	A20	100	23.4				A	240	4	2000–1800	
10		S	DUNHUA	CHN	128E13 43N22	A20	10	10.6				A	120	4	2000–1800	
11		S	FUHAI	CHN	87E45 47N00	A20	1	0.6				A	120	4	2000–1800	
12		S	FUSONG	CHN	127E17 42N19	A20	10	10.6				A	120	4	2000–1800	
13		S	FUYUN	CHN	89E33 47N00	A20	10	10.6				A	120	4	2000–1800	
14			GUANGZHOU	CHN	113E14 23N11	A20	10	10.6				A	120	4	2000–1800	
15		S	HOTAN	CHN	80E02 37N00	A20	10	10.6				A	120	4	2000–1800	
16			HUHHOT	CHN	111E30 41N12	A20	5	7.6				A	120	4	2000–1800	
17		S	HURE QI	CHN	121E41 42N45	A20	10	10.6				A	120	4	2000–1800	
18		S	JARUD QI	CHN	120E54 44N34	A20	10	10.6				A	120	4	2000–1800	
19		S	KASHI	CHN	76E00 39N25	A20	10	10.6				A	120	4	2000–1800	
20		S	RUOQIANG	CHN	88E10 39N00	A20	10	10.6				A	120	4	2000–1800	
21		S	TACHENG	CHN	83E05 46N45	A20	10	10.6				A	120	4	2000–1800	
22		S	TURPAN	CHN	89E02 42N53	A20	10	10.6				A	120	4	2000–1800	
23		S	WANGQING	CHN	129E46 43N18	A20	10	10.6				A	120	4	2000–1800	
24		S	XINHE	CHN	82E40 41N25	A20	10	10.6				A	120	4	2000–1800	
25		S	YINING SHI	CHN	81E28 43N55	A20	10	10.6				A	120	4	2000–1800	
26		S	YIWU	CHN	94E40 43N20	A20	1	0.6				A	120	4	2000–1800	
27			TRINCOMALEE	CLN	81E07 08N30	C10	20	13.4				A	102	5	0000–1800	
28			DOLISIE	COG	12E41 04S14	A20	50	17.6				A	163	5	0000–2400	
29			BARCELONA	E	02E12 41N23	D 9	500	30.4				A	236	5	0000–2400	19
30			SODDU	ETH	37E45 06N52	C 9	10	10.4				A	102	3	0400–2100	
31			AMBIKAPUR	IND	83E04 23N10	A20	300	26.9				A	200	4	0300–0900	25
32			BARMER	IND	71E18 25N45	A20	300	26.9				A	200	4	0300–0900	25
33			HYDERABAD	IND	78E30 17N20	A20	300	26.9				A	200	3	0000–2400	
34			PT BLAIR	IND	92E43 11N41	A20	300	26.9				A	200	4	0300–1000	25
35			DJEMBER	INS	113E45 08S07	A18	2	3.4				A	100	4	2200–1700	
36			TEL AVIV 2	ISR	35E00 32N15	D 9	1200	34.0				A	200	3	0000–2400	18/NIG 33
37			NAHA	J	127E42 26N11	A15	5	7.6				A	128	4	0000–2400	
38			TOYAMA	J	137E15 36N43	A15	5	7.6				A	114	5	0000–2400	
39			MALINDI	KEN	40E05 03S15	C 9	5	7.4				A	100	4	0000–2400	
40			DAEGU	KOR	128E49 35N54	C10	100	20.6				A	158	5	0000–2400	
41			SINSANG	KRE	127E25 39N39	A16	100	24.0				B		6	2000–1800	
42			PAKSE	LAO	105E50 15N06	A20	10	10.4				A	77	5	2300–1500	
43			MACAU	MAC	113E33 22N12	A20	10	10.4				A	75	2	2200–1600	
44			LOUREN MARQUES	MOZ	32E36 25S58	C10	50	19.1				A	200	4	0400–2200	
45			BAUCHI	NIG	09E50 10N19	C 9	20	13.4				A	100	4	0500–2300	18/ISR
46			PAPEETE 1	OCE	149W29 17S30	A20	100	20.4				A	100	6	0000–2400	
47			KIDAPAWAN COT	PHL	125E05 07N00	C 9	1	0.4				A	101	3	2100–1600	
48			VALENZUELA BUL	PHL	120E58 14N40	C 9	50	17.4				A	101	3	0000–2400	
49			POZNAN	POL	17E00 52N36	C 9	1500	34.0				B		4	0000–2400	
50			MOUNDOU	TCD	16E13 08N35	C 9	30	16.9				A			0400–2300	
51			BANGKOK	THA	100E30 13N45	A20	20	13.4				A	66	2	0000–2400	
52			CHIANG MAI	THA	98E56 18N18	A20	10	10.4				A	104	5	0000–2400	
53			KHANTYMANSIISK	URS	69E03 60N57	A16	50	19.1				A	220	4	0000–2400	
54			TCHELIABINSK	URS	61E24 55N09	C10	150	23.9				A	220	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	738	QUINHON	VTN	109E07 13N53	C10	50	20.0	265			B		4	2100—1600	
2	(24)	DEANOVAC 2	YUG	16E29 45N42	D 9	25	14.6				A	140	3	0500—1700	7
3		KRUSEVAC	YUG	21E21 43N35	D 9	10	10.4				A	90	3	0800—1500	
4		TETOVO	YUG	20E59 42N01	D 9	1	0.6				A	60	4	0800—1500	7

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	747		TLEMCEN	ALG	01W19 34N52	D 9	4	6.0				A	45	4	0600—2400	24
2	(25)		AFLAJ	ARS	46E40 22N15	C 9	20	13.6				A	120	4	0400—1400	24
3		S	DALBY QLD	AUS	151E18 27S08	A20	10	12.1				A	219	3	1900—1400	
4		S	LONGREACH QLD	AUS	144E13 23S23	A20	10	10.4				A	58	2	1900—1400	
5			PNT DELGADA	AZR	25W40 37N45	A20	10	10.4				A	90	4	0000—2400	
6			PETRITCH	BUL	23E35 41N37	C 9	500	29.1				A	205	4	0000—2400	18/HOL
7		S	HUALIAN	CHN	121E37 23N55	A20	100	23.4				A	240	5	2000—1800	
8		S	JIAYI	CHN	120E26 23N28	A20	100	23.4				A	240	5	2000—1800	
9		S	JINGDONG	CHN	100E45 24N24	A20	10	10.6				A	120	5	2000—1800	
10		S	KUNMING	CHN	102E50 25N10	A20	50	17.6				A	120	5	2000—1800	
11		S	TAIBEI SHI	CHN	121E28 25N05	A20	100	23.4				A	240	5	2000—1800	
12		S	TAIDONG	CHN	121E08 22N47	A20	50	17.6				A	120	5	2000—1800	
13		S	TENGCHONG	CHN	98E20 25N00	A20	50	17.6				A	120	5	2000—1800	
14		S	ZHONGDIAN	CHN	99E37 27N45	A20	10	10.6				A	120	5	2000—1800	
15			YATIYANTOTA	CLN	80E17 07N02	C10	20	13.6				A	130	7	0000—1800	
16			GAROUA	CME	12E25 09N18	C 9	100	22.1				A	200	4	0500—2300	
17			JEMSA	EGY	33E32 27N41	D 9	10	10.7				A	150	3	0600—1600	24
18			BASSE 1	GMB	14W15 13N15	C 9	2	3.0				A	49	4	0600—2400	
19			FLEVOLAND	HOL	05E26 52N20	D 9	500	30.4				A	220	4	0000—2400	18/BUL
20			OUAGADOUGOU	HVO	01W31 12N22	A20	100	20.4				A	80	4	0000—2400	
21			AGARTALA	IND	91E23 23N50	A20	300	26.9				A	200	3	0300—0900	25
22			JAISALMER	IND	70E57 26N55	A20	300	28.2				A	235	4	0300—0900	25
23			JALGAON	IND	75E31 20N55	A20	300	26.9				A	200	3	0300—0900	25
24			LUCKNOW	IND	80E52 26N45	A20	300	26.9				A	200	3	0000—2400	
25			TRICHUR	IND	76E15 10N35	A20	300	26.9				A	200	4	0300—1000	25
26			BENGKULU	INS	102E20 03S46	A18	10	10.4				A	100	4	2200—1700	
27			BANDAR SHAH	IRN	54E05 36N54	A20	400	29.0	70	200—310		B		2	0100—1500	
28			SAPPORO	J	141E37 43N05	A15	500	29.1				A	184	4	0000—2400	
29			NAIROBI	KEN	36E55 01S35	C 9	100	20.4				A	93	4	0000—2400	
30			KWANGJU	KOR	126E53 35N11	C10	100	20.6				A	140	5	0000—2400	
31			TOKCHON	KRE	126E19 39N45	A16	1	0.0				A	50		2000—1800	
32			BUCHANAN	LBR	10W30 05N53	A20	10	10.4				A	100	5	0500—2400	
33			TAWAU	MLA	117E55 04N16	A20	10	10.6				A	150	5	0000—2400	
34			AFIKPO	NIG	07E59 05N59	C 9	10	10.4				A	110	4	0500—2300	
35			RUNTU	NMB	19E46 17S55	A20	100	23.0	180			B		5	0000—2400	
36			KUMARA	NZL	171E09 42S34	A20	10	10.6				A	150	6	0000—2400	
37			BACOLOD CITY	PHL	122E57 10N41	C 9	1	0.4				A	100	3	2100—1600	
38			BAGUIO CITY	PHL	120E35 16N24	C 9	5	7.4				A	100	3	2100—1600	
39			PT SUDAN	SDN	37E12 19N36	A20	100	24.0	200			B		4	0400—2400	24
40			APIA	SMO	171W50 13S47	A20	10	10.4				A	100	6	0000—2400	
41			S TOME	STP	06E45 00N21	C 8	5	7.4				A	100	3	0000—2400	
42			SARAKEB	SYR	36E49 35N50	C 9	100	22.1				A	206	3	0300—2400	
43			SONGKHLA	THA	100E36 07N10	A20	10	10.4				A	104	3	0000—2400	
44			SURIN	THA	103E30 14N53	A20	10	10.4				A	56	3	0000—1000	
45			SURIN	THA	103E30 14N53	A20	5	7.4				A	56	3	1000—2400	
46		S	ARKALYK	URS	66E30 50N30	A16	15	13.9				A	220	4	0000—2400	
47			KEM	URS	34E36 64N57	A18	25	16.1				A	220	4	0000—2400	
48		S	SEMIPALATINSK	URS	80E15 50N25	C10	200	25.1				A	220	4	0000—2400	
49			OTOCAC	YUG	15E14 44N52	D 9	1	0.4				A	50	4	0800—1500	7
50			KIKWIT	ZAI	18E45 05S05	C 9	10	10.4				A	60	8	0000—2400	



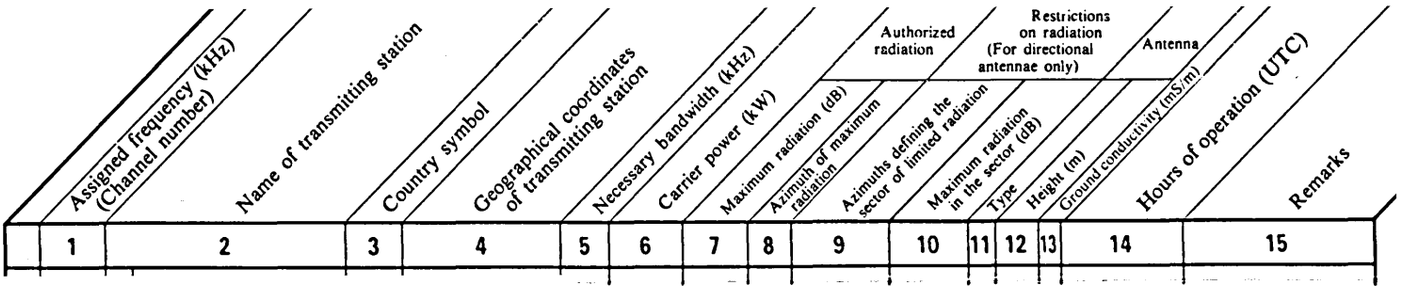
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	756		KUNUNURRA WA	AUS	128E43 15S47	A20	2	3.0				A	21	4	2200—1600	
2	(26)		MACKAY QLD	AUS	149E13 21S06	A20	2	3.4				A	52	3	1900—1400	
3			TAREE NSW	AUS	152E26 31S54	A20	2					B		5	1900—1400	
4			WANGARATTA VIC	AUS	146E15 36S15	A20	10					B		2	1900—1400	
5		S	ANDA SHI	CHN	125E20 46N30	A20	20	13.4				A	90	4	2000—1800	
6		S	ANHUA	CHN	111E13 28N22	A20	10	10.4				A	90	4	2000—1800	
7		S	ANSHAN	CHN	122E58 41N07	A20	10	10.4				A	90	4	2000—1800	
8		S	ANYANG SHI	CHN	114E22 36N08	A20	20	13.4				A	90	4	2000—1800	
9		S	CHANGSHA SHI	CHN	112E45 28N09	A20	50	17.4				A	90	4	2000—1800	
10		S	DANGCHANG	CHN	104E25 33N55	A20	5	7.4				A	90	4	2000—1800	
11		S	DANGSHAN	CHN	116E21 34N26	A20	5	7.4				A	90	4	2000—1800	
12		S	DUNHUANG	CHN	94E37 40N09	A20	5	7.4				A	90	4	2000—1800	
13		S	FENG XIAN	CHN	106E30 33N55	A20	5	7.4				A	90	4	2000—1800	
14		S	FU XIAN 1	CHN	109E21 35N59	A20	50	17.4				A	90	4	2000—1800	
15		S	FUJIN	CHN	132E01 47N20	A20	50	17.4				A	90	4	2000—1800	
16		S	FUSHUN SHI	CHN	123E53 41N51	A20	5	7.4				A	90	4	2000—1800	
17		S	FUXIN SHI	CHN	121E38 42N02	A20	20	13.4				A	90	4	2000—1800	
18		S	FUYANG	CHN	115E51 32N54	A20	5	7.4				A	90	4	2000—1800	
19		S	GUSHI	CHN	115E40 32N10	A20	10	10.4				A	90	4	2000—1800	
20		S	HAIYUAN	CHN	105E39 36N34	A20	20	13.4				A	90	4	2000—1800	
21		S	HANGZHOU	CHN	120E08 30N16	A20	20	13.4				A	90	4	2000—1800	
22		S	HE XIAN	CHN	111E39 24N28	A20	10	10.4				A	90	4	2000—1800	
23		S	HEZE	CHN	115E27 35N15	A20	5	7.4				A	90	4	2000—1800	
24		S	HUAILAI	CHN	115E31 40N23	A20	10	10.4				A	90	4	2000—1800	
25		S	HULIN	CHN	132E58 45N45	A20	20	13.4				A	90	4	2000—1800	
26		S	HUZHONG	CHN	123E32 52N05	A20	20	13.4				A	90	4	2000—1800	
27		S	JIANCHANG	CHN	119E48 40N49	A20	20	13.4				A	90	4	2000—1800	
28		S	JIANHE	CHN	108E45 26N39	A20	20	13.4				A	90	5	2000—1800	
29		S	JIAOZUO	CHN	113E14 35N15	A20	10	10.4				A	90	4	2000—1800	
30		S	JIEXI	CHN	115E50 23N26	A20	10	10.4				A	90	4	2000—1800	
31		S	JIMO	CHN	120E28 36N23	A20	10	10.4				A	90	4	2000—1800	
32		S	JINAN	CHN	116E57 36N43	A20	50	17.4				A	90	4	2000—1800	
33		S	KENLI	CHN	118E35 37N38	A20	5	7.4				A	90	4	2000—1800	
34		S	LANKAO	CHN	114E48 34N48	A20	5	7.4				A	90	4	2000—1800	
35		S	LEIYANG	CHN	112E51 26N25	A20	10	10.4				A	90	4	2000—1800	
36		S	LINFEN	CHN	111E31 36N05	A20	10	10.4				A	90	4	2000—1800	
37		S	LINGQIU	CHN	114E14 39N26	A20	1	0.4				A	90	4	2000—1800	
38		S	LINGSHAN	CHN	109E17 22N25	A20	10	10.4				A	90	4	2000—1800	
39		S	LINXIA	CHN	102E55 35N19	A20	5	7.4				A	90	4	2000—1800	
40		S	LISHI	CHN	111E08 37N31	A20	10	10.4				A	90	4	2000—1800	
41		S	LISHUI	CHN	119E54 28N28	A20	10	10.4				A	90	4	2000—1800	
42		S	LIUZHOU	CHN	109E12 24N18	A20	20	13.4				A	90	4	2000—1800	
43		S	LONGLIN	CHN	105E27 24N43	A20	10	10.4				A	90	4	2000—1800	
44		S	LUAN	CHN	116E30 31N45	A20	10	10.4				A	90	4	2000—1800	
45		S	MEITAN	CHN	107E29 27N46	A20	10	10.4				A	90	5	2000—1800	
46		S	MIANYANG	CHN	113E13 30N11	A20	10	10.4				A	90	4	2000—1800	
47		S	MULAN	CHN	128E02 45N57	A20	10	10.4				A	90	4	2000—1800	
48		S	NANYANG SHI	CHN	112E32 33N00	A20	20	13.4				A	90	4	2000—1800	
49		S	NAYONG	CHN	105E15 26N56	A20	10	10.4				A	90	5	2000—1800	
50		S	NENJIANG	CHN	125E02 49N05	A20	20	13.4				A	90	4	2000—1800	
51		S	NINGYUAN	CHN	111E59 25N35	A20	10	10.4				A	90	4	2000—1800	
52		S	ONGNIUD QI	CHN	118E54 42N55	A20	20	13.4				A	90	4	2000—1800	
53		S	PINGGUO	CHN	107E33 23N19	A20	10	10.4				A	90	4	2000—1800	
54		S	PINGNAN	CHN	110E24 23N33	A20	10	10.4				A	90	4	2000—1800	

Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	756	S	PUTIAN	CHN	119E01 25N25	A20	10	10.4				A	90	4	2000—1800	
2	(26)	S	QIANYANG	CHN	110E09 27N20	A20	10	10.4				A	90	4	2000—1800	
3		S	QICHUN	CHN	115E20 30N04	A20	10	10.4				A	90	4	2000—1800	
4		S	QUANZHOU 2	CHN	111E04 25N56	A20	10	10.4				A	90	4	2000—1800	
5		S	RUYANG	CHN	112E28 34N09	A20	10	10.4				A	90	4	2000—1800	
6		S	SANMENXIA	CHN	111E13 34N46	A20	10	10.4				A	90	4	2000—1800	
7		S	SHANG XIAN	CHN	109E53 33N52	A20	20	13.4				A	90	4	2000—1800	
8		S	SHENGSI	CHN	122E27 30N44	A20	5	7.4				A	90	4	2000—1800	
9		S	SHUO XIAN	CHN	112E25 39N18	A20	10	10.4				A	90	4	2000—1800	
10		S	SONGZHENG	CHN	118E45 27N32	A20	10	10.4				A	90	4	2000—1800	
11		S	TANGSHAN	CHN	118E13 39N38	A20	50	17.4				A	90	4	2000—1800	
12		S	WUHE	CHN	117E53 33N09	A20	10	10.4				A	90	4	2000—1800	
13		S	WUHU SHI	CHN	118E24 31N18	A20	5	7.4				A	90	4	2000—1800	
14		S	WULIAN	CHN	119E12 35N45	A20	5	7.4				A	90	4	2000—1800	
15		S	WUPING	CHN	116E06 25N05	A20	10	10.4				A	90	4	2000—1800	
16		S	WUWEI	CHN	102E33 37N57	A20	5	7.4				A	90	4	2000—1800	
17		S	XIANGSHAN	CHN	121E52 29N28	A20	5	7.4				A	90	4	2000—1800	
18		S	XIFENGZHEN	CHN	107E30 35N48	A20	5	7.4				A	90	4	2000—1800	
19		S	XINYANG SHI	CHN	114E04 32N10	A20	20	13.4				A	90	4	2000—1800	
20		S	XIUNING	CHN	118E10 29N47	A20	5	7.4				A	90	4	2000—1800	
21		S	XUCHANG SHI	CHN	113E48 34N02	A20	5	7.4				A	90	4	2000—1800	
22		S	YANGQUAN	CHN	113E35 37N52	A20	5	7.4				A	90	4	2000—1800	
23		S	YANTAI	CHN	121E18 37N36	A20	5	7.4				A	90	4	2000—1800	
24		S	YICHANG SHI	CHN	111E12 30N48	A20	50	17.4				A	90	4	2000—1800	
25		S	YICHUN 2	CHN	128E45 47N40	A20	50	17.4				A	90	4	2000—1800	
26		S	YINCHUAN	CHN	106E12 38N30	A20	50	17.4				A	90	4	2000—1800	
27		S	YINGDE	CHN	113E24 24N10	A20	10	10.4				A	90	4	2000—1800	
28		S	YONGSHUN	CHN	109E51 29N00	A20	10	10.4				A	90	4	2000—1800	
29		S	ZAOZHUANG	CHN	117E34 34N52	A20	5	7.4				A	90	4	2000—1800	
30		S	ZHANGYE	CHN	100E30 38N54	A20	10	10.4				A	90	4	2000—1800	
31		S	ZHANJIANG	CHN	110E24 21N12	A20	50	17.4				A	90	4	2000—1800	
32		S	ZHENFENG	CHN	105E40 25N14	A20	20	13.4				A	90	5	2000—1800	
33		S	ZHUANGHE	CHN	123E01 39N41	A20	10	10.4				A	90	4	2000—1800	
34		S	ZHUMADIAN	CHN	114E02 32N59	A20	5	7.4				A	90	4	2000—1800	
35		S	ZICHANG	CHN	109E40 37N09	A20	10	10.4				A	90	4	2000—1800	
36		S	BRAUNSCHWEIG	D	10E43 52N17	D 9	800	29.6				A	137	4	0400—1800	
37		S	BRAUNSCHWEIG	D	10E43 52N17	D 9	200	26.6	310	110—150	17.6	B		4	1800—0400	
38		S	RAVENSBURG	D	09E31 47N47	D 9	100	20.6				A	120	4	0400—1800	
39		S	RAVENSBURG	D	09E31 47N47	D 9	100	22.0	280	80—120	14.0	B		4	1800—0400	
40		S	ASSWAN	EGY	32E57 24N04	D 9	10	10.4				A	100	3	0000—2400	24
41		S	ASYUT	EGY	31E04 27N11	D 9	10	10.4				A	100	3	0000—2400	24
42		S	KENA	EGY	32E43 26N10	D 9	10	10.4				A	100	3	0000—2400	24
43			GORE	ETH	35E32 08N09	C 9	10	10.4				A	105	3	0400—2100	
44		S	KUOPIO	FNL	27E34 62N46	D 9	100	22.1				A	200	5	0000—2400	
45		S	MARIEHAMN 2	FNL	19E51 60N07	D 9	10	10.6				A	150	3	0000—2400	
46		S	SODANKYLA	FNL	26E35 67N26	D 9	45	17.1				A	150	6	0000—2400	
47			CARLISLE	G	02W55 54N52	A20	1	0.0				A	46	4	0000—2400	
48			REDRUTH	G	05W13 50N13	A20	2	3.0				A	38	5	0000—2400	
49			GAOUAL	GUI	13W18 11N45	C 9	20	13.4				A	99	4	0000—2400	
50			BOLOGNA	I	11E31 44N31	D 9	25	16.5	200	65— 90	11.0	B		3	0000—2400	18/ROU
51			C VATICANO	I	16E07 38N40	D 9	100	22.1				A	198	2	0400—1700	7
52			ITANAGAR	IND	94E42 27N12	A20	300	26.9				A	200	4	0300—0900	25
53			JAGDALPUR	IND	81E55 19N01	A20	100	22.0	85	295—345	14.0	B		4	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	756	JODHPUR	IND	72E58 26N20	A20	300	26.9				A	200	4	0300—0900	25
2	(26)	PURWOKERTO	INS	109E12 07S26	A18	10	10.4				A	99	4	2200—1700	
3		ZAHEDAN	IRN	60E53 29N28	A20	10	10.4				A	99	4	0300—1400	
4		SALMAN PAK	IRQ	44E40 33N10	A20	300	29.0	150			B		4	0200—2300	
5		KUMAMOTO	J	130E44 32N50	A15	10	10.4				A	102	4	0000—2400	
6		SEOUL	KOR	126E53 37N26	C10	50	17.6				A	142	5	0000—2400	
7		HAMHEUNG	KRE	127E35 39N58	A16	2	3.0				A	50		2000—1800	
8		DELIMARA	MLT	14E34 35N49	D 9	20	16.4				A	240	4	0000—2400	
9		MABALANE	MOZ	33E30 24S30	C10	20	13.4				A	66	4	0500—1500	
10		NGUMBE	MWI	35E02 15S42	A20	50	17.4				A	92	3	0200—2300	
11		MAIDUGURI	NIG	13E09 11N54	C 9	250	24.4				A	85	4	0500—2300	
12		AUCKLAND	NZL	174E38 36S51	A20	20	13.6				A	150	3	0000—2400	
13		QUETTA	PAK	67E00 30N10	A20	150	25.2				A	227	4	0000—2000	
14		BUTUAN CITY	PHL	125E31 08N56	C 9	1	0.4				A	99	3	2100—1600	
15		NAGA CITY	PHL	123E11 13N37	C 9	5	7.4				A	99	3	2100—1600	
16		OLONGAPO CITY	PHL	120E17 14N49	C 9	1	0.4				A	99	3	2100—1600	
17	S	BRAGANCA	POR	06W45 41N47	A20	1	0.4				A	90	7	0000—2400	
18	S	COVILHA	POR	07W29 40N14	A20	10	10.4				A	90	5	0000—2400	
19	S	LISBOA	POR	08W57 38N58	A20	135	23.4				A	180	3	0000—2400	
20	S	PORTO	POR	08W35 41N06	A20	10	10.4				A	90	3	0000—2400	
21	S	V REAL	POR	07W43 41N16	A20	10	10.4				A	90	5	0000—2400	
22	S	VALENCA	POR	08W38 42N01	A20	10	10.4				A	90	5	0000—2400	
23	S	VISEU	POR	07W55 40N38	A20	10	10.4				A	90	5	0000—2400	
24	S	BOTOSANI	ROU	26E39 47N44	A20	50	17.4				A	93	5	0000—2400	
25	S	LUGOJ	ROU	21E55 45N40	A20	1000	33.0	190	240—320	20.0	B		4	0000—2400	
26	S	LUGOJ	ROU	21E55 45N40	A20	1000	33.0	10	60—140	20.0	B				
27		KRABI	THA	98E56 08N03	A20	50	22.0	50			B		3	0000—2400	
28		NARATHIWAT	THA	101E48 06N25	A20	10	10.6				A	75	3	0000—2400	
29		PHUKET	THA	98E24 07N58	A20	50	17.4				A	100	3	0000—2400	
30		NEBBI	UGA	31E00 02N30	C 9	10	10.6				A	135	4	0300—2100	
31		KOLPACHEVO	URS	82E59 58N18	A18	150	23.9				A	220	4	0000—2400	
32		URGHENTCH	URS	60E20 41N40	A18	150	25.7	340	150—180	11.7	B		4	0000—2400	
33		HISWA	YMS	44E53 12N43	C10	50	17.4				A	108	4	0300—2200	24
34	S	BANJA LUKA 2	YUG	17E11 44N50	D 9	10	10.4				A	90	3	0800—1500	
35	S	MOSTAR 2	YUG	17E49 43N25	D 9	10	10.4				A	90	5	0800—1500	
36		ISIRO	ZAI	27E41 02N46	C 9	10	10.4				A	60	8	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	765		KRUJA	ALB	19E47 41N30	A20	1	0.4				A	97	4	0400—2300	
2	(27)		DAMMAM	ARS	50E10 26N24	C 9	1000	35.0	120	250—350	21.0	B		3	0300—1500	24
3		S	BEGA NSW	AUS	149E55 36S45	A20	5					B		4	1900—1400	
4		S	MORUYA NSW	AUS	150E08 35S51	A20	0.5					B		4	1900—1400	
5			PARABURDOO WA	AUS	118E00 23S00	A20	10	12.1				A		5	2100—1600	
6		S	ABGANAR QI	CHN	116E08 43N56	A20	20	13.4				A	90	4	2000—1800	
7		S	BAOTOU	CHN	109E56 40N40	A20	50	17.4				A	90	4	2000—1800	
8		S	DONG UJUMQIN	CHN	116E56 45N30	A20	10	10.4				A	90	4	2000—1800	
9			FUZHOU 1	CHN	119E24 26N06	A20	100	22.1				A	180	4	2000—1800	
10		S	OTOG QI	CHN	107E59 39N06	A20	20	13.4				A	90	4	2000—1800	
11		S	QOG QI	CHN	106E58 41N28	A20	10	10.4				A	90	4	2000—1800	
12			ZUNYI SHI	CHN	106E50 27N32	A20	10	10.4				A	100	5	2000—1800	
13			IOANNINA	GRC	20E52 39N40	C 9	20	13.4				A	65	4	0400—2200	
14			BHOPAL	IND	77E36 23N16	A20	300	26.9				A	200	3	0300—0900	25
15			DHARWAR	IND	74E59 15N27	A20	200	25.1				A	200	3	0000—2400	
16			TUTICORIN	IND	78E12 08N48	A20	300	26.9				A	200	3	0300—1000	25
17			BANDJARMASIN	INS	114E33 03S22	A18	5	7.4				A	100	4	2100—1600	
18			ENNISCORTHY	IRL	06W25 52N25	A20	100	24.0	290	100—120	6.0	B		4	0000—2400	
19			CHAHBAHAR 2	IRN	60E45 25N25	A20	600	31.8	225	330— 40	23.8	B		2	0200—1500	
20			CHAHBAHAR 2	IRN	60E45 25N25	A20	600	31.8		80—140	23.8	B				
21			CHAHBAHAR 2	IRN	60E45 25N25	A20	600	33.8	95	160—230	12.8	B		2	1500—2100	
22			CHAHBAHAR 2	IRN	60E45 25N25	A20	600	33.8		270—300	14.8	B				
23			CHAHBAHAR 2	IRN	60E45 25N25	A20	600	33.8		0— 20	7.8	B				
24			BEER SHEVA	ISR	34E32 31N14	D 9	20	15.1				A		3	0000—2400	33
25			KOFU	J	138E32 35N40	A15	5	8.0	120			B		5	0000—2400	
26			TOKUYAMA	J	131E43 34N08	A15	5	8.0	190			B		5	0000—2400	
27			DAEJEON	KOR	127E23 36N17	C10	10	10.6				A	124	4	0000—2400	
28			HYESAN	KRE	128E12 41N24	A16	50	21.0				B		7	2000—1000	
29			HYESAN	KRE	128E12 41N24	A16	25	18.0				B		7	1000—1800	
30			KUALATRENGGANU	MLA	103E07 05N18	A20	10	10.4				A	100	5	0000—2400	
31			NAMPULA	MOZ	39E16 15S06	C10	250	24.4				A	98	4	0400—2200	
32			TINRHIR	MRC	05W20 31N33	A18	20	15.1				A	196	6	0500—2400	24
33			OKITIPUPA	NIG	04E45 06N33	C 9	10	10.4				A	100	4	0400—2300	
34			DHANKUTA	NPL	87E19 27N00	A20	100	20.6				A	120	4	2200—1900	
35			OPAPA	NZL	176E40 39S48	A20	5	10.4	40	80—180	7.4	B		4	0000—2400	
36			OPAPA	NZL	176E40 39S48	A20	5	10.4	220	260—360	7.4	B				
37			CEBU CITY	PHL	123E53 10N18	C 9	5	7.4				A	98	3	2100—1600	
38			GENERAL SANTOS	PHL	125E11 06N06	C 9	1	0.4				A	98	3	2100—1600	
39			TUGUEGARAO CAG	PHL	121E43 17N36	C 9	5	7.4				A	98	3	2100—1600	
40			SOBA	SDN	32E40 15N30	A20	200	26.4				A	228	3	0400—2200	24
41			DAKAR	SEN	17W16 14N45	C10	400	28.1				A	187	4	0600—2400	
42			SOTTENS	SUI	06E44 46N39	D 9	500	29.1				A	190	5	0500—2400	
43			LAMPANG	THA	99E31 18N17	A20	20	13.0				A	40	5	0000—2400	
44			SILIFKE	TUR	34E00 36N25	D 9	600	32.0	250	295—310	15.0	B		4	0200—2300	
45			SILIFKE	TUR	34E00 36N25	D 9	600	32.0		130—190	8.0	B				
46			SILIFKE	TUR	34E00 36N25	D 9	600	32.0		310— 10	8.0	B				
47			ODESSA	UKR	30E45 46N29	C 9	150	25.7	20	270—320	15.7	B		4	0000—2400	
48			KIRENSK	URS	108E06 57N47	A18	50	21.0	340	140—180	12.0	B		4	0000—2400	
49			MEDVEJIEGORSK	URS	34E24 62N56	A16	150	25.2				A	220	4	0000—2400	
50			TCHARDJOU	URS	63E55 39N02	A18	30	18.2				A	220	4	0000—2400	
51			TETIUKHE	URS	135E50 44N20	A18	50	22.0	350	90—170	9.0	B		4	0000—2400	
52			KOPRIVNICA	YUG	16E50 46N10	D 9	1	0.4				A	40	3	0800—1500	7

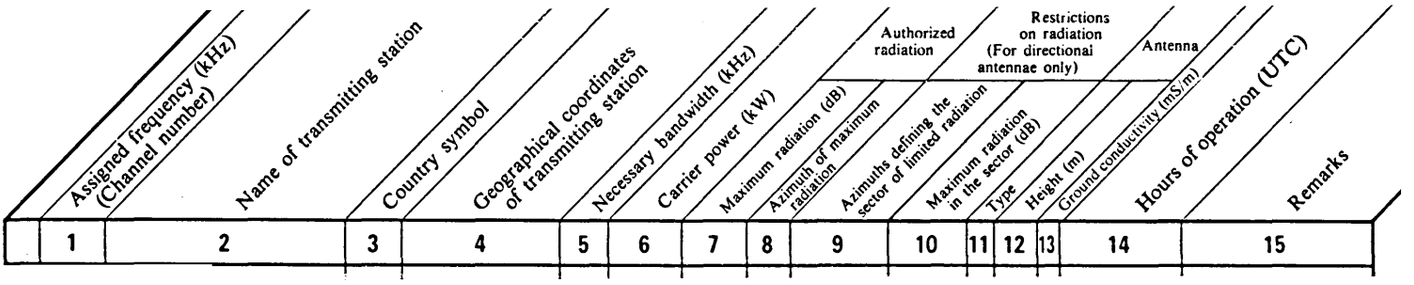
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	765	S	NOVA GRADISKA2	YUG	17E15 45N11	D 9	20	13.4				A	100	3	0800—1500	
2	(27)	S	RIJEKA	YUG	14E26 45N20	D 9	20	13.4				A	60	4	0800—1500	
3		S	STON 2	YUG	17E44 42N50	D 9	20	13.0	0	290—310	7.0	B		4	0000—2400	45
4		S	STON 2	YUG	17E44 42N50	D 9	20	10.4	115	290—310	7.0	B				
5		S	STON 2	YUG	17E44 42N50	D 9	20	10.4	240	290—310	7.0	B				
6		S	ZADAR 2	YUG	15E15 44N06	D 9	2	3.0				A	42	4	0000—2400	46
7			BUNIA	ZAI	30E11 01N32	C 9	10	10.4				A	60	8	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

774 KHZ (28)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	774		LUANDA	AGL	13E20 08S50	A20	10	10.4				A	97	3	0000—2400	
2	(28)		MELBOURNE VIC	AUS	144E47 37S43	A20	50	19.1				A	216	2	1900—1400	
3			TOWNSVILLE QLD	AUS	147E01 19S19	A20	5					B		4	0000—2400	
4			HALLSTATT	AUT	13E40 47N33	D 9	0.1	−10.0				A	15	6	0000—2400	
5			HEILIGENBLUT	AUT	12E51 47N02	D 9	0.1	−10.0				A	15	6	0000—2400	
6			JUDENBURG	AUT	14E39 47N09	D 9	0.1	−10.0				A	15	6	0000—2400	
7		S	KLAGENFURT SEE	AUT	14E16 46N37	D 9	30	15.2				A	105	5	0000—2400	
8			LAENGENFELD	AUT	10E58 47N05	D 9	0.1	−10.0				A	15	6	0000—2400	
9			LEND	AUT	13E03 47N18	D 9	0.1	−10.0				A	15	6	0000—2400	
10		S	LIEZEN	AUT	14E14 47N34	D 9	10	10.6				A	150	6	0000—2400	
11			MAYRHOFEN	AUT	11E52 47N10	D 9	0.1	−10.0				A	15	6	0000—2400	
12			MITTERSILL	AUT	12E29 47N17	D 9	0.1	−10.0				A	15	6	0000—2400	
13			OBERDRAUBURG	AUT	12E59 46N46	D 9	0.1	−10.0				A	15	6	0000—2400	
14			OBERVELLACH	AUT	13E12 46N56	D 9	0.1	−10.0				A	15	6	0000—2400	
15			PRUTZ	AUT	10E40 47N05	D 9	0.1	−10.0				A	15	6	0000—2400	
16			RADSTADT	AUT	13E27 47N24	D 9	0.1	−10.0				A	15	6	0000—2400	
17			S ANTON ARLBG	AUT	10E17 47N08	D 9	0.1	−10.0				A	15	6	0000—2400	
18			S GALLENKIRCH	AUT	09E58 47N01	D 9	0.1	−10.0				A	15	6	0000—2400	
19		S	SALZBURG MOOS	AUT	13E02 47N46	D 9	20	13.0				A	23	5	0000—2400	
20			BUJUMBURA	BDI	29E30 03S25	C 9	30	15.2				A	97	4	0300—2400	
21		S	SOFIA	BUL	23E41 42N51	C 9	150	22.4				A	110	4	0000—2400	5/EGY
22		S	VARNA	BUL	27E40 43N03	C 9	150	22.2				A	81	4	0000—2400	5/EGY
23		S	ENSHI	CHN	109E28 30N17	A20	20	13.4				A	90	4	2000—1800	
24		S	SHASHI	CHN	112E14 30N18	A20	50	17.4				A	90	4	2000—1800	
25		S	SHIYAN	CHN	110E47 32N36	A20	20	13.4				A	90	4	2000—1800	
26		S	WUHAN	CHN	114E20 30N36	A20	100	22.1				A	180	4	2000—1800	
27		S	ZAOYANG	CHN	112E45 32N08	A20	20	13.4				A	90	4	2000—1800	
28			ANURADHAPURA	CLN	80E30 08N20	C10	10	10.4				A	81	5	0000—1800	
29		S	BARBASTRO	E	00E08 42N02	D 9	1	0.0				A	50	5	0000—2400	19
30		S	CACERES	E	06W20 39N20	D 9	60	19.9				A	180	4	0000—2400	19
31		S	CALATAYUD	E	01W38 41N21	D 9	0.3	−5.2				A	50	5	0000—2400	19
32		S	CAMPOGIBRALTAR	E	05W20 36N09	D 9	10	10.0				A	82	4	0400—1700	
33		S	CAMPOGIBRALTAR	E	05W20 36N09	D 9	5	7.0				A	82	4	1700—0400	
34		S	FIGUERAS	E	02E58 42N16	D 9	0.3	−5.2				A	50	5	0000—2400	19
35		S	GRANADA	E	03W36 37N11	D 9	1	0.0				A	50	4	0000—2400	19
36		S	JACA	E	00W33 42N34	D 9	0.3	−5.2				A	50	5	0000—2400	19
37		S	LEON	E	05W35 42N36	D 9	1	0.0				A	50	4	0000—2400	19
38		S	MARBELLA	E	04W53 36N31	D 9	0.3	−5.2				A	50	5	0000—2400	19
39		S	ORENSE	E	07W48 42N21	D 9	20	13.4				A	96	5	0000—2400	19
40		S	QUESADA	E	03W04 37N51	D 9	0.3	−5.2				A	50	5	0000—2400	19
41		S	RIBADEO	E	07W02 43N32	D 9	0.5	−3.0				A	50	4	0000—2400	19
42		S	S SEBASTIAN	E	01W50 43N21	D 9	20	13.4				A	81	5	0000—2400	19
43		S	SORIA	E	02W28 41N46	D 9	0.3	−5.2				A	50	5	0000—2400	19
44		S	VALENCIA	E	00W19 39N17	D 9	100	20.4				A	96	4	0000—2400	19
45			ABIS	EGY	30E05 31N10	D 9	1000	37.0	280	330— 30	21.0	B		3	0000—2400	5/BUL 24
46			BAHAR DAR	ETH	37E27 11N20	C 9	10	10.4				A	97	3	0400—1500	
47			LAUTOKA	FJI	177E28 17S37	A20	10	10.0				A	45	7	1700—1200	
48			ENNISKILLEN	G	07W39 54N22	A20	1	0.0				A	45	4	0000—2400	
49			GLOUCESTER	G	02W07 51N51	A20	0.3	−6.9	295			B		3	0000—2400	
50			LEEDS	G	01W38 53N46	A20	0.5	−3.0				A	38	3	0000—2400	
51			PLYMOUTH	G	04W08 50N24	A20	1	0.0				A	30	5	0000—2400	
52			BASSE 2	GMB	14W15 13N15	C 9	2	3.0				A	49	4	0600—2400	
53			AGANA	GUM	144E45 13N27	C10	10	10.4				A	97	3	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	774		FIRENZE	I	11E16 43N49	D 9	50	17.6				A	150	4	0400—1700	7
2	(28)		MILANO	I	09E12 45N20	D 9	100	22.1				A	194	4	0400—1700	7
3			NAPOLI	I	14E19 41N00	D 9	50	17.6				A	155	4	0400—1700	7
4			JEYPORE	IND	82E40 18N51	A20	300	26.9				A	195	4	0300—1000	25
5			KOHIMA	IND	94E03 25N43	A20	300	26.9				A	195	4	0300—0900	25
6			RAJKOT	IND	70E41 22N22	A20	20	15.1				A	195	3	0300—0900	25
7			SIMLA 1	IND	77E12 31N10	A20	300	26.9				A	195	4	0300—0900	25
8			SIMLA 2	IND	77E12 31N10	A20	100	22.1				A	195	4	0900—0300	
9			BANDUNG	INS	107E34 06S57	A18	10	10.4				A	97	4	2200—1700	
10			FAKFAK	INS	132E17 02S55	A18	10	10.4				A	97	5	2000—1500	
11			ARAK	IRN	49E42 34N05	C 9	10	10.0				A	95	5	0230—1500	
12			ARAK	IRN	49E42 34N05	C 9	5	7.0				A	95	5	1500—2400	
13			AKITA	J	139E56 39N57	A15	500	29.1				A	168	4	0000—2400	
14			CHUNCHEON	KOR	127E43 37N55	C10	10	10.6				A	124	6	0000—2400	
15			JEJU	KOR	126E35 33N30	C10	10	10.6				A	120	4	0000—2400	
16			SUDONG	KRE	127E01 39N24	A16	1	0.0				A	50		2000—1800	
17			SELAMA	MLA	100E40 05N12	A20	10	10.6				A	150	5	2200—1700	
18			TENOM	MLA	115E57 05N08	A20	10	10.6				A	150	5	0000—2400	
19			ULAN BATOR	MNG	107E00 47N55	A18	5	7.6				A	120	4	2200—1500	
20			LOUREN MARQUES	MOZ	32E36 25S58	C10	10	10.4				A	96	4	0400—2200	
21			AGADIR	MRC	09W31 30N20	A18	100	22.1				A	190	4	0600—2400	24
22			BENIN	NIG	05E45 06N24	C 9	50	17.4				A	85	4	0500—2300	
23			KAIKOURA	NZL	173E41 42S24	A20	2	3.0				A	50	5	0000—2400	
24			MARAWI CITY	PHL	124E18 08N01	C 9	1	0.4				A	97	3	2100—1600	
25			QUEZON CITY	PHL	122E05 14N38	C 9	10	10.4				A	97	3	2100—1600	
26			STOCKHOLM	S	18E11 59N18	D 9	600	30.0	220	110—120	22.0	B		4	0000—2400	
27			SOKOLOV	TCH	12E40 50N10	A20	1	0.4				A	60	5	0000—2400	
28			UDON THANI	THA	102E47 17N24	A20	10	10.0				A	35	3	0000—2400	
29			AIAGUZ	URS	79E59 47N50	A18	50	20.4				A	220	4	0000—2400	
30		S	ORENBURG	URS	54E47 51N46	C10	50	20.4				A	220	4	0000—2400	
31		S	VORONEJ	URS	39E14 51N38	A16	150	25.2				A	220	4	0000—2400	
32			MUKALLA	YMS	49E07 14N31	C 9	50	22.0	40	140—270	7.0	B		4	0300—2200	24
33		S	BIHAC	YUG	15E53 44N48	D 9	10	10.4				A	60	5	0000—2400	
34			GACKO	YUG	18E34 43N12	D 9	20	13.4				A	60	5	0000—2400	
35			SPLIT	YUG	16E28 43N30	D 9	50	19.0				A	120	4	0800—1500	
36		S	TOVARNIK	YUG	19E11 45N11	D 9	10	12.1				A	190	3	0800—1500	
37			TUZLA	YUG	18E46 44N38	D 9	20	13.4				A	60	4	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	783		EL OUED	ALG	06E47 33N31	D 9	20	13.4				A	90	5	0600—2400	
2	(29)		ALBANY WA	AUS	117E50 35S01	A20	5	7.4				A	55	3	1900—1400	
3			KATOOMBA NSW	AUS	150E23 33S43	A20	5	7.4				A	73	4	1900—1400	
4			SAVE	BEN	02E30 08N04	C10	5	7.4				A	96	4	0500—2400	
5		S	BAODING	CHN	115E33 38N51	A20	100	22.0	240	20—100	14.0	B		4	2000—1800	
6		S	BAQEN	CHN	93E43 32N01	A20	10	10.4				A	90	5	2000—1800	
7		S	COMA	CHN	91E28 28N28	A20	10	10.4				A	90	5	2000—1800	
8		S	DAMXUNG	CHN	91E10 30N35	A20	10	10.4				A	90	5	2000—1800	
9		S	GERZE	CHN	84E15 32N20	A20	50	17.4				A	90	5	2000—1800	
10		S	KUANCHENG	CHN	118E29 40N36	A20	20	13.4				A	90	4	2000—1800	
11		S	MEDO	CHN	95E13 29N18	A20	10	10.4				A	90	5	2000—1800	
12		S	QABDO	CHN	97E05 31N11	A20	50	17.4				A	90	5	2000—1800	
13		S	SAGA	CHN	85E18 29N25	A20	10	10.4				A	90	5	2000—1800	
14		S	WEICHANG	CHN	117E45 41N57	A20	10	10.4				A	90	4	2000—1800	
15		S	XIGAZE	CHN	89E00 29N20	A20	10	10.4				A	90	5	2000—1800	
16		S	XINGTAI SHI	CHN	114E31 37N04	A20	10	10.4				A	90	4	2000—1800	
17		S	ZAMDA	CHN	79E46 31N28	A20	10	10.4				A	90	5	2000—1800	
18			BURG	DDR	11E54 52N17	D 9	1000	32.1				A	200	4	0000—2400	
19			GOLDEN HILL	HKG	114E09 22N22	A20	20	13.4				A	92	5	2200—1800	
20			GAOUA	HVO	04W20 10N30	A20	30	16.9				A	192	4	0000—2400	
21			BIKANER	IND	73E22 28N01	A20	300	26.9				A	190	4	0300—0900	25
22			MADRAS 1	IND	80E17 13N04	A20	300	26.9				A	190	3	0300—1000	25
23			MADRAS 2	IND	80E17 13N04	A20	200	25.0	255	0— 40	17.0	B		3	1000—0300	
24			NAGPUR	IND	79E03 21N06	A20	300	26.9				A	190	3	0300—0900	25
25			SILIGURI	IND	88E30 26N42	A20	100	21.0	180	345— 15	17.0	B		4	0300—0900	25
26			TANDJUNGKARANG	INS	105E18 05S22	A18	5	7.4				A	96	5	2200—1700	
27			IRANSHAHR	IRN	60E42 27N12	A20	20	13.6				A	134	4	0100—2200	
28			NAHA	J	127E43 26N13	A15	5	7.4				A	86	4	0000—2400	
29			MARSABIT	KEN	38E00 02N20	C 9	5	7.4				A	100	4	0200—2100	
30			BUSAN	KOR	129E07 35N09	C10	5	7.4				A	60	4	0000—2400	
31			PYONGYANG	KRE	125E40 39N04	A16	1000	34.0				B		6	2000—1000	
32			PYONGYANG	KRE	125E40 39N04	A16	500	31.0				B		6	1000—1800	
33			SANDAKAN	MLA	118E01 05N58	A20	10	10.6				A	150	5	0000—2400	
34			V CABRAL	MOZ	35E08 13S18	C10	5	7.4				A	96	4	0400—2200	
35			CHINGUETTI	MTN	12W20 20N28	B20	20	13.4				A	96		0600—2400	
36		S	LOKOJA	NIG	06E45 07N45	C 9	50	17.4				A	100	4	0500—2300	
37		S	MAKURDI	NIG	08E31 07N44	C 9	10	10.4				A	100	4	0500—2300	
38			WELLINGTON	NZL	174E51 41S06	A20	20	13.6				A	120	4	0000—2400	
39			MARQUISES	OCE	140W10 08S55	A20	20	13.4				A	50	1	0000—2400	
40			BAUANG LU	PHL	120E21 16N33	C 9	1	0.4				A	96	3	2100—1600	
41			DAVAO CITY	PHL	125E36 07N04	C 9	10	10.4				A	96	3	2100—1600	
42			MASBATE MAS	PHL	123E37 12N22	C 9	1	0.4				A	96	3	2100—1600	
43			PALAWAN	PHL	118E48 09N45	C 9	1	0.4				A	96	3	2100—1600	
44		S	MIRANDELA	POR	07W10 41N31	A20	10	10.4				A	90	5	0000—2400	
45		S	PORTO	POR	08W37 41N04	A20	100	20.4				A	100	5	0000—2400	
46			ATBARA	SDN	34E00 17N30	A20	100	26.0	340			B		4	0400—2400	
47			TARTOUS	SYR	35E50 34N50	C 9	600	33.6	250			B		2	0300—2400	
48			LOPBURI	THA	100E42 14N53	A20	20	13.4				A	96	5	0000—2400	
49			KAMPALA	UGA	32E36 00N20	C 9	20	13.4				A	96	4	0300—2100	
50			KIEV	UKR	30E38 50N27	A16	100	23.4				A	220	4	0300—1300	
51			SIMFEROPOL	UKR	34E06 44N56	A16	50	20.4				A	220	4	0300—1300	
52			UJGOROD	UKR	22E20 48N38	A16	50	20.4				A	220	4	0300—1300	
53			ACHKHABAD	URS	58E23 37N57	C10	300	27.7	20	140—250	12.7	B		4	0000—2400	

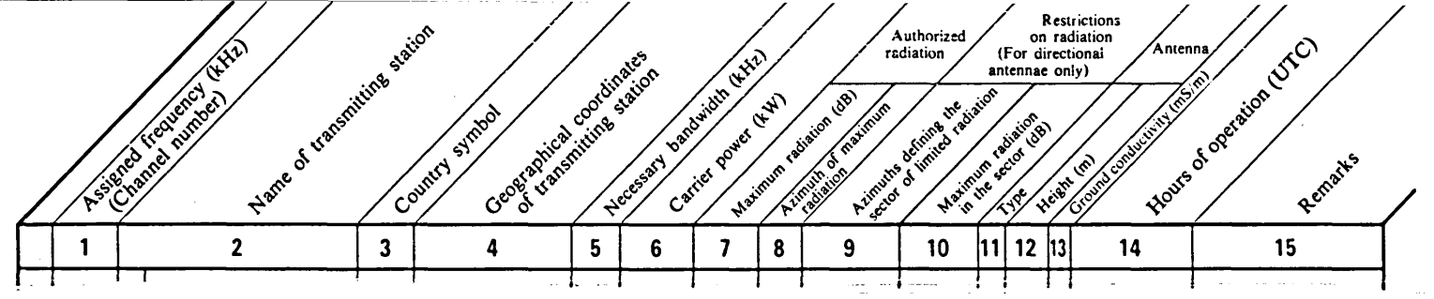
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	783	DJAMBUL	URS	71E22 42N55	A18	150	25.7	310	110—150	15.7	B		4	0000—2400	
2	(29)	KAZAN	URS	48E48 55N47	A16	150	25.2				A	220	4	0000—2400	
3		SPASSK DALNII	URS	132E47 44N38	A18	75	22.7	60	220—260	12.7	B		4	0000—2400	
4		TSELINOGRAD	URS	71E24 49N08	A16	30	18.2				A	220	4	0000—2400	
5		CANTHO	VTN	105E46 10N05	C10	10	10.4				A	100	3	2100—1500	
6		PAZIN	YUG	15E45 45N15	D 9	50	17.4				A	100	4	0800—1500	

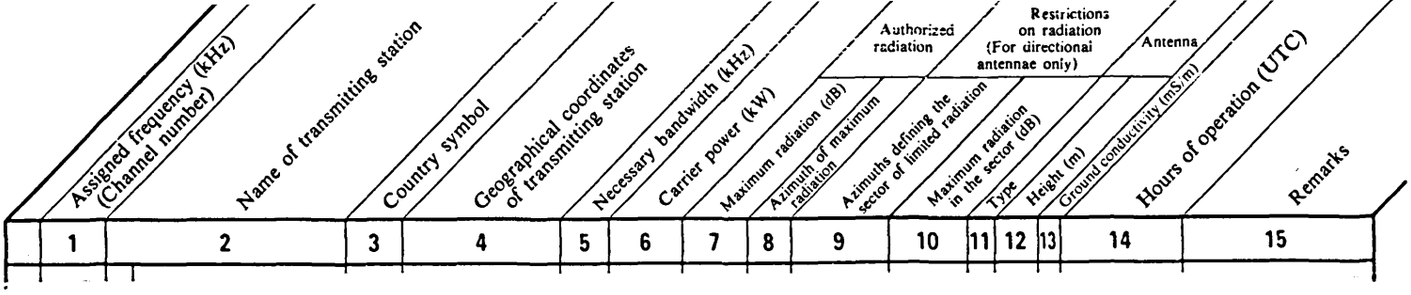
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

792 KHZ (30)

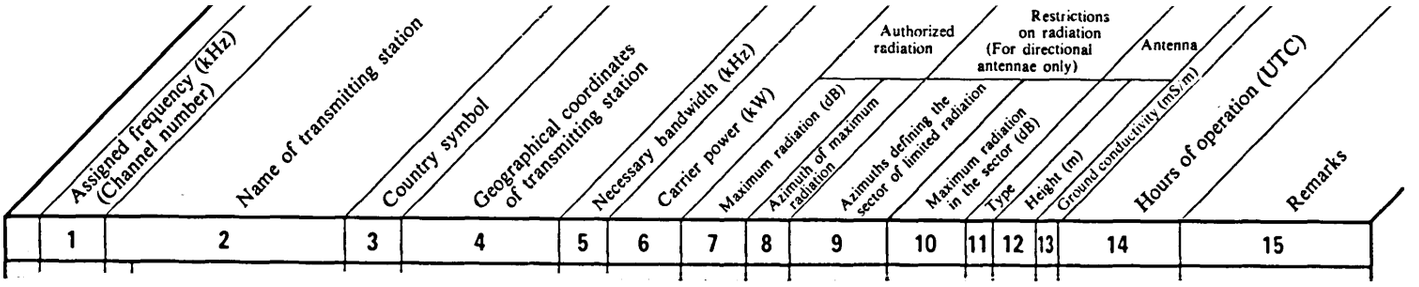
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	792	S	BRISBANE QLD	AUS	153E01 27S19	A20	10	12.1				A	198	3	2000—1500	
2	(30)	S	S GEORGE QLD	AUS	148E40 28S00	A20	10	12.1				A		3	1900—1400	
3		S	BEIHAI	CHN	109E07 21N29	A20	20	13.4				A	90	4	2000—1800	
4		S	BOSE	CHN	106E37 23N54	A20	40	16.4				A	90	4	2000—1800	
5		S	HECHI	CHN	108E03 24N42	A20	20	13.4				A	90	4	2000—1800	
6		S	NANNING	CHN	108E18 22N48	A20	100	22.1				A	180	4	2000—1800	
7		S	PINGLE	CHN	110E38 24N38	A20	20	13.4				A	90	4	2000—1800	
8			SHANGHAI	CHN	121E29 31N15	A20	50	17.4				A	90	3	2000—1800	
9			SHENYANG	CHN	123E36 41N54	A20	5	7.4				A	90	4	2000—1800	
10			XIAN	CHN	108E54 34N12	A20	10	10.4				A	90	4	2000—1800	
11		S	YULIN 2	CHN	110E08 22N37	A20	20	13.4				A	90	4	2000—1800	
12			BRAZZAVILLE	COG	15E18 04S16	A20	100	22.1				A	189	5	0000—2400	
13			SEVILLA	E	06W00 37N20	D 9	20	13.4				A	80	3	0000—2400	19
14			LIMOGES	F	01E10 45N56	D 9	300	26.9				A	160	4	0000—2400	
15			LONDONDERRY	G	07W22 55N00	A20	1	0.0				A	46	5	0000—2400	
16			KAVALLA	GRC	24E49 40N52	C 9	500	27.6				A	119	3	0800—1500	
17			KAVALLA	GRC	24E49 40N52	C 9	500	34.0	195	270—290	24.0	B		3	1500—0800	
18			KAVALLA	GRC	24E49 40N52	C 9	500	34.0	15	90—120	24.0	B				
19			POONA 1	IND	73E55 18N31	A20	300	26.9				A	190	3	0300—1000	25
20			POONA 2	IND	73E55 18N31	A20	200	26.0	180	315— 45	13.0	B		3	1000—0300	
21			RANCHI	IND	85E23 23N23	A20	50	19.1				A	190	3	0300—0900	25
22			EMBETSU	J	141E48 44N43	A15	1	0.6				A	108	5	0000—2400	
23			IMABARI	J	133E01 34N03	A15	0.1	−9.6				A	71	5	0000—2400	
24			IWAIZUMI	J	141E48 39N51	A15	0.1	−9.6				A	71	5	0000—2400	
25			NASE	J	129E30 28N24	A15	1	0.4				A	102	5	0000—2400	
26			OZU	J	132E34 33N31	A15	0.1	−9.6				A	74	5	0000—2400	
27			TAKADA	J	138E17 37N06	A15	1	0.6				A	109	5	0000—2400	
28			TAKAYAMA	J	137E15 36N08	A15	1	0.4				A	67	5	0000—2400	
29			TOJO	J	133E16 34N54	A15	0.1	−9.6				A	71	5	0000—2400	
30			MOMBASA	KEN	39E40 04S05	C 9	100	23.0				A	93	4	0000—2400	
31			SEOUL	KOR	126E51 37N29	C10	50	17.6				A	122	5	0000—2400	
32			SINPO	KRE	128E10 40N04	A16	1	0.4				A	70		2000—1800	
33		S	NALUT	LBY	10E59 31N52	A20	20	15.1				A	190	5	0400—2400	28
34		S	SIRTE	LBY	16E40 31N12	A20	20	15.1				A	190	5	0400—2200	28
35			TANTAN	MRC	10W51 28N27	C12	20	15.1				A	190	5	0500—0300	
36			KAEDI	MTN	13W31 16N09	B20	20	13.4				A	94		0600—2400	
37			IDOMINASI	NIG	04E42 07N41	C 9	10	10.4				A	100	4	0400—2300	
38			KATMANDU	NPL	85E20 27N45	A20	100	20.4				A	100	4	2200—1900	
39			CHATHAM IS	NZL	176W38 44S05	A20	5	7.4				A	50	4	0000—2400	
40			ROSS	NZL	170E48 42S54	A20	2	3.4				A	50	6	0000—2400	
41			MUZAFARABAD	PAK	73E29 34N22	A20	100	20.4				A	76	4	0000—2000	
42			ANGELES PAMP	PHL	120E35 15N08	C 9	1	0.4				A	94	3	2100—1600	
43			ORMOC CITY	PHL	124E36 11N01	C 9	1	0.4				A	94	3	2100—1600	
44			S PIERRE 2	REU	55E29 21S19	A20	20	13.4				A	60	4	0000—2400	
45			SINGAPORE 1	SNG	103E42 01N20	A20	750	29.2				A	100	4	2200—1800	
46			BRATISLAVA M	TCH	17E10 48N10	C 9	6	7.8				A	60	4	0400—1700	7
47			BRATISLAVA M	TCH	17E10 48N10	A20	1	0.4				A	60	4	1700—0400	
48			JESENIK	TCH	17E12 50N14	A20	1	0.4				A	60	5	0000—2400	
49			PRAHA MESTO	TCH	14E23 49N58	C 9	30	15.4				A	60	5	0400—1700	7
50			PRAHA MESTO	TCH	14E23 49N58	A20	1	0.4				A	60	5	1700—0400	
51			BANGKOK	THA	100E31 13N48	A20	20	13.4				A	60	2	0000—2400	
52			ASTRAKHAN	URS	48E04 46N22	C10	50	20.4				A	220	4	0000—2400	
53			OKHA	URS	142E53 53N36	A18	50	20.4				A	220	4	0000—2400	
54			SAYWN	YMS	48E50 16N00	C 9	50	17.4				A	95	4	0300—2200	



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	792	ARANDJELOVAC	YUG	20E34 44N19	D 9	1	0.4				A	45	4	0800—1500	7
2	(30)	BANOVICI	YUG	18E32 44N25	D 9	1	0.4				A	50	4	0800—1500	7
3		CAPLJINA	YUG	17E42 43N07	D 9	1	0.4				A	50	5	0800—1500	7
4		KINDU	ZAI	25E55 02S57	C 9	10	10.4				A	60	8	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	801		RAFHA	ARS	43E30 29N40	C 9	20	13.6				A	120	4	0400—1400	24
2	(31)	S	CAIRNS QLD	AUS	145E47 17S03	A20	5	7.0				A	43	5	1900—1400	
3		S	MOSSMAN QLD	AUS	145E23 16S25	A20	2	3.4				A	61	4	1900—1400	
4			RENMARK SA	AUS	140E38 34S14	A20	5	7.0				A	43	2	1900—1400	
5			SYDNEY NSW	AUS	150E53 33S56	A20	0.5	−3.0				A	37	4	1900—1400	
6			BAHRAIN	BHR	50E28 26N09	C 9	200	23.0				A	95	5	0300—1500	
7			BAHRAIN	BHR	50E28 26N09	C 9	50	20.0	100	250—310	6.0	B		5	1500—0300	
8			ANDA SHI	CHN	125E20 46N30	A20	1	0.4				A	60	4	2000—1800	
9		S	DEQING	CHN	111E46 23N09	A20	20	13.4				A	90	4	2000—1800	
10		S	JIANGMEN	CHN	113E07 22N32	A20	10	10.4				A	90	4	2000—1800	
11		S	YA XIAN	CHN	109E28 18N17	A20	30	15.2				A	90	4	2000—1800	
12		S	YINGDE	CHN	113E24 24N10	A20	20	13.4				A	90	4	2000—1800	
13		S	ZHANJIANG	CHN	110E24 21N12	A20	50	19.1				A	180	4	2000—1800	
14			DIYAGAMA	CLN	79E58 06N50	C10	50	17.4				A	60	5	0000—1800	
15			MUENCHEN ISMAN	D	11E45 48N15	D 9	500	27.4				A	100	4	0600—1800	
16			MUENCHEN ISMAN	D	11E45 48N15	D 9	500	27.0	210	30— 40	25.0	B		4	1800—0600	
17			BALE GOBA	ETH	40E00 07N00	C 9	10	10.4				A	94	3	0400—2100	
18			BARNSTAPLE	G	04W07 51N03	C10	2	3.0				A	46	4	0000—2400	
19			DINGUIRAYE	GUI	10W43 11N17	C 9	30	15.2				A	74	4	0000—2400	
20			GENOVA	I	08E54 44N25	D 9	20	15.1				A	167	5	0400—1700	7
21			PESCARA	I	14E15 42N26	D 9	20	13.6				A	111	4	0400—1700	7
22			ADILABAD	IND	78E30 19N48	A20	300	26.9				A	185	3	0300—1000	25
23			BHAGALPUR	IND	87E02 25N15	C 9	300	26.9				A	200	3	0300—0900	25
24			GAUHATI	IND	91E47 26N11	A20	300	26.9				A	185	3	0300—0900	25
25			JAMMU	IND	74E49 32N47	C 9	200	23.0				A	255	4	0300—0900	25
26			REWA	IND	81E25 24N31	A20	300	26.9				A	185	4	0000—2400	
27			SEMARANG	INS	110E29 06S58	A18	10	10.4				A	94	5	2200—1700	
28			REZAIYEH	IRN	45E05 37N32	A20	10	10.4				A	94	3	0300—1400	
29			ENA SAN	J	137E25 35N28	A15	0.1	−9.6				A	68	5	0000—2400	
30			HARANOMACHI	J	140E58 37N39	A15	0.1	−9.6				A	52	5	0000—2400	
31			KAZUNO AKITA	J	140E49 40N11	A15	0.1	−9.6				A	67	5	0000—2400	
32			KESENNUMA	J	141E34 38N54	A15	0.1	−9.6				A	68	5	0000—2400	
33			KITAMI	J	143E52 43N49	A15	0.1	−9.6				A	83	4	0000—2400	
34			MUGI	J	134E25 33N40	A15	0.1	−9.4				A	107	5	0000—2400	
35			OWASE	J	136E12 34N04	A15	0.1	−9.6				A	68	5	0000—2400	
36			SENDAI KAGOSHI	J	130E18 31N48	A15	0.1	−9.6				A	60	5	0000—2400	
37			AMMAN	JOR	35E53 31N54	C 9	200	25.1				A	162	6	0300—2300	24
38			SANGJU	KOR	128E11 36N25	C10	1	0.6				A	120	6	0000—2400	
39			HWADAE	KRE	129E26 40N51	A16	500	29.0				B		5	2000—1000	
40			HWADAE	KRE	129E26 40N51	A16	250	26.0				B		5	1000—1800	
41			KUDAT	MLA	116E43 06N55	A20	10	10.6				A	150	5	0000—2400	
42			ALHOCEIMA	MRC	03W57 35N10	A18	400	28.0	180	300— 60	18.0	B		4	0500—2400	24
43			NGUIGMI	NGR	13E00 14N10	C 9	5	7.4				A	95	4	0000—2400	
44			FORCADOS	NIG	05E25 05N22	C 9	50	17.4				A	74	4	0500—2300	
45			NELSON	NZL	173E13 41S20	A20	2	3.4				A	50	4	0000—2400	
46			BISLIG SURIGAO	PHL	126E18 08N13	C 9	1	0.4				A	93	3	2100—1600	
47			CAUAY ISABELA	PHL	121E46 16N56	C 9	1	0.4				A	93	3	2100—1600	
48			GENERAL SANTOS	PHL	125E10 06N06	C 9	1	0.4				A	93	3	2100—1600	
49			S JOSE ANTIQ	PHL	121E56 10N44	C 9	1	0.4				A	93	3	2100—1600	
50			SORSOGON SOR	PHL	123E59 12N58	C 9	1	0.4				A	93	3	2100—1600	
51			EL FASHER	SDN	25E30 15N38	A20	100	23.4				A	241	4	0600—1600	24
52		S	CHIANG RAI	THA	99E52 19N51	A20	10	10.4				A	72	5	0000—2400	
53		S	LOPBURI	THA	100E40 14N51	A20	5	7.4				A	60	5	0000—2400	
54		S	N RATCHASIMA	THA	102E05 14N56	A20	5	7.0				A	42	2	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	801	S	PRACHUAB	THA	99E50 11N50	A20	1	0.0				A	48	3	0000—2400	
2	(31)	S	UBON	THA	104E52 15N15	A20	5	7.0				A	48	4	0000—2400	
3		S	ATBASAR	URS	68E00 51N50	A18	150	25.2				A	220	4	0000—2400	
4		S	BAKU	URS	49E45 40N24	A18	150	29.0	0	110—250	9.0	B		4	0000—2400	
5		S	DUCHANBE	URS	68E50 38N40	C10	200	28.0	50	220—280	8.0	B		4	0000—2400	
6			LENINGRAD	URS	30E18 59N57	A16	1000	33.4				A	220	4	0300—1500	
7			LENINGRAD	URS	30E18 59N57	A16	500	30.4				A	220	4	1500—0300	
8			ULAN UDE	URS	107E38 51N50	A16	1000	34.0	350	150—190	24.0	B		4	0000—2400	
9		S	USTKAMENOGORSK	URS	82E36 49N55	A18	150	25.2				A	220	4	0000—2400	
10			QUANG NGAI	VTN	108E50 15N09	C10	10	10.4				A	100	4	1000—1200	
11			BUKAVU	ZAI	28E52 02S20	C 9	300					B		7	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	810		V SALAZAR	AGL	14E55	09S18	A20	5	7.4				A	93	3	0000—2400	
2	(32)	S	BEGA NSW	AUS	149E50	36S42	A20	10	10.6				A	137	4	1900—1400	
3		S	MANILLA NSW	AUS	150E44	30S47	A20	10	12.1				A	172	4	1900—1400	
4		S	MORUYA NSW	AUS	150E08	35S53	A20	1					B		4	1900—1400	
5			PERTH WA	AUS	115E49	31S51	A20	10	12.1				A	177	4	2200—1700	
6			BOCARANGA	CAF	15E39	07N05	C 9	10	10.4				A	95	5	0400—2300	
7		S	JINHUA	CHN	119E30	29N15	A20	20	13.4				A	90	4	2000—1800	
8		S	NINGBO	CHN	121E32	29N52	A20	50	17.4				A	90	4	2000—1800	
9		S	PINGHU	CHN	121E01	30N42	A20	20	13.4				A	90	4	2000—1800	
10		S	WENZHOU	CHN	120E36	28N06	A20	20	13.4				A	90	4	2000—1800	
11			XIAN	CHN	108E54	34N12	A20	5	7.4				A	90	4	2000—1800	
12			BERLIN 3	D	13E14	52N30	D 9	5	7.6				A	120	4	0000—2400	11/G
13			MADRID	E	03W50	40N30	D 9	20	13.5				A	110	4	0000—2400	19
14			LABASA	FJI	179E22	16S25	A20	2.5	4.0				A	30	3	1700—1200	
15		S	BURGHEAD	G	03W28	57N42	A20	100	22.1				A	152	4	0000—2400	
16			CROWBOROUGH	G	00E06	51N03	A20	500	30.0	130			B		3	1100—1400	
17		S	DUMFRIES	G	03W28	55N02	A20	2	3.0				A	38	4	0000—2400	
18		S	REDMOSS	G	02W05	57N07	A20	20	13.4				A	76	5	0000—2400	
19		S	WESTERGLEN	G	03W50	55N58	A20	100	22.1				A	152	4	0000—2400	
20			HONG KONG 7	HKG	114E02	22N17	A20	10	10.4				A	91	5	0000—2400	
21			BANGALORE	IND	77E38	12N58	A20	1000	32.1				A	185	3	0300—1000	25
22			BANGALORE	IND	77E38	12N58	A20	500	29.1				A	185	3	1000—0300	
23			BARMER	IND	71E18	25N45	A20	300	26.9				A	185	4	0300—0900	25
24			TEZU	IND	96E15	27N50	A20	300	26.9				A	185	4	0300—0900	25
25			MERAUKE	INS	140E22	08S30	A18	5	7.6				A	104	6	2000—1500	
26			EILAT	ISR	35E00	29N40	D 9	10	10.6				A	110	3	0000—2400	33
27			TOKYO	J	139E36	35N46	A15	50	20.0	200			B		4	0000—2400	
28			LAMU	KEN	40E52	02S20	C 9	5	7.4				A	100	4	0000—2400	
29			DAEGU	KOR	128E31	35N48	C10	20	13.6				A	125	6	0000—2400	
30			KAESONG	KRE	126E34	37N59	A16	50	20.0				B		6	2000—1800	
31			KUANTAN	MLA	103E21	03N48	A20	10	10.4				A	100	5	2200—1700	
32			JOAO BELO	MOZ	33E38	25S02	C10	50	17.4				A	93	4	0400—2200	
33			ILORIN	NIG	04E39	08N33	C 9	20	13.4				A	80	4	0400—2400	
34			DANDELDHURA	NPL	80E35	29N18	A20	10	10.4				A	60	4	2200—1900	
35			DUNEDIN	NZL	170E36	45S53	A20	20	13.6				A	150	4	0000—2400	
36			CAGAYAN DE ORO	PHL	124E39	08N29	C 9	5	7.4				A	92	3	2100—1600	
37			QUEZON CITY	PHL	122E10	14N44	C 9	10	10.4				A	92	3	2100—1600	
38			RABAUL	PNG	152E10	04S15	B10	2	3.4				A	60	6	2000—1400	
39			PODOR	SEN	14W58	16N40	C 9	10	10.4				A	50	4	0600—2400	
40			GALCAIO	SOM	47E30	06N50	A18	10	10.4				A	90	4	0300—2100	
41		S	KHON KAEN	THA	102E51	16N28	A20	7	8.9				A	60	3	0000—2400	
42		S	TRANG	THA	99E37	07N32	A20	10	10.0				A	30	3	0000—2400	
43			MAQTAA	UAE	54E34	24N21	C 9	50	19.1				A	196	5	0200—2200	24
44			BOBI	UGA	32E23	02N33	C 9	100	20.4				A	93	4	0300—2100	
45		S	KHARKOV	UKR	36E14	49N58	A16	6	11.2				A	220	4	0000—2400	
46		S	AGHINSKOE	URS	115E33	51N22	A18	150	25.2				A	220	4	0000—2400	
47		S	BODAIBO	URS	114E18	57N51	A18	50	20.4				A	220	4	0000—2400	
48		S	IMAN	URS	133E43	45N56	A16	150	25.2				A	220	4	0300—1500	
49		S	IMAN	URS	133E43	45N56	A16	75	22.2				A	220	4	1500—0300	
50		S	OMSK	URS	73E24	54N50	A18	150	25.2				A	220	4	0000—2400	
51		S	TBILISI	URS	44E28	41N42	A18	150	25.2				A	220	4	0000—2400	
52		S	ULIANOVSK	URS	48E20	54N19	C10	50	20.4				A	220	4	0000—2400	
53		S	VANAVARA	URS	102E17	60N22	A18	50	20.4				A	220	4	0000—2400	
54		S	VOLGOGRAD	URS	44E12	48N47	A16	150	25.2				A	220	4	0000—2400	

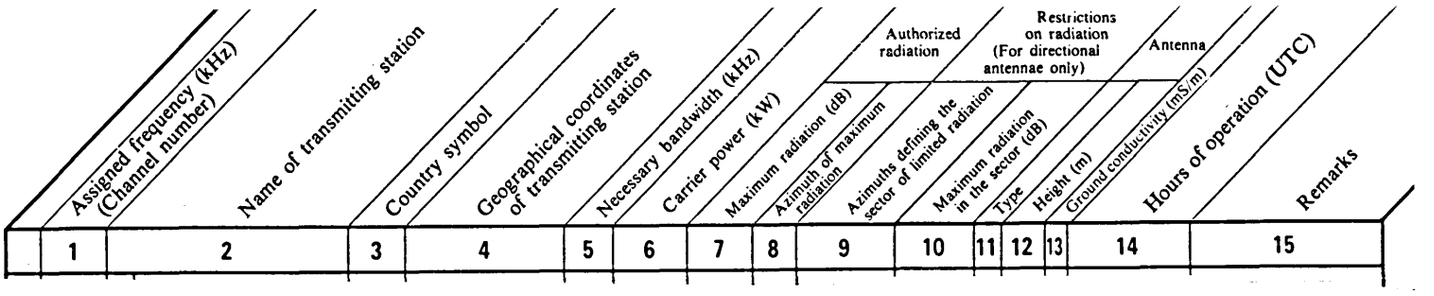
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	810	S	VYRU	URS	27E02 57N49	A18	5	10.4				A	220	4	0000—2400	
2	(32)		SKOPJE 1	YUG	21E54 41N47	D 9	1000	32.1				A	185	4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	819		SUD RADIO	AND	01E45 42N35	D 9	600					B		4	0000—2400	11/F 20
2	(33)		DAMMAM	ARS	50E10 26N24	C 9	1000	35.0	120	250—350	21.0	B		4	0300—1500	24
3		S	ALBURY NSW	AUS	146E58 36S03	A20	10	10.4				A	54	3	1900—1400	
4		S	GLEN INNES NSW	AUS	151E46 29S47	A20	10	10.6				A	143	4	1900—1400	
5			DACCA	BGD	90E26 23N43	A20	100	22.1				A	152	3	0000—1800	
6		S	CHANGZHI SHI	CHN	113E06 36N10	A20	50	17.4				A	90	4	2000—1800	
7		S	DATONG SHI	CHN	113E10 40N05	A20	50	17.4				A	90	4	2000—1800	
8			LANZHOU	CHN	103E50 36N02	A20	10	10.4				A	90	4	2000—1800	
9		S	TAIYUAN	CHN	112E33 37N45	A20	100	22.1				A	180	4	2000—1800	
10		S	YUNCHENG	CHN	111E00 34N57	A20	40	16.4				A	90	4	2000—1800	
11			SENKADAGALA	CLN	80E40 07N10	C10	20	13.6				A	116	6	0000—1800	
12			KRIBI	CME	09E54 02N54	C 9	20	15.1				A	183	5	0500—2300	
13			BATRA	EGY	31E27 31N09	D 9	1000	36.0	110			A	160	3	0000—2400	24
14			TRIESTE	I	13E46 45N40	D 9	25	14.4				A	80	4	0000—2400	
15			CHANDIGARH	IND	76E54 30N42	A20	300	26.9				A	185	3	0300—0900	25
16			DELHI	IND	77E12 28N38	A20	300	27.0	235	85—135	19.0	B		3	0000—2400	
17			PARBHANI	IND	76E50 19N08	A20	300	26.9				A	185	3	0300—1000	25
18			MEDAN	INS	98E39 03N35	A18	10	10.4				A	66	5	2200—1700	
19			MERAUKE	INS	140E22 08S30	A18	5	7.4				A	92	6	2000—1500	
20			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0	90	120—150	3.0	B		2	0200—2100	
21			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0		230—260	3.0	B				
22			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0		350— 30	3.0	B				
23			NAGANO	J	138E12 36N40	A15	5	7.4				A	102	5	0000—2400	
24			OITA	J	131E35 33N15	A15	5	7.6				A	108	5	0000—2400	
25			SASEBO	J	129E42 33N08	A15	1	0.6				A	106	5	0000—2400	
26			KWANGJU	KOR	126E49 35N18	C10	20	13.6				A	126	4	0000—2400	
27			CHONGJIN	KRE	129E43 41N52	A16	500	32.0				B		5	2000—1000	
28			CHONGJIN	KRE	129E43 41N52	A16	250	29.0				B		5	1000—1800	
29			CUREPIPE	MAU	57E31 20S19	A20	100	20.0				A	38	4	0200—2000	
30			MIRI	MLA	113E59 04N23	A20	20	13.6				A	110	5	2200—1600	
31			RABAT	MRC	06W55 33N54	A20	600	31.2				A	240	4	0500—0300	24
32			PAENGAROA	NZL	176E25 37S49	A20	10	10.6				A	150	3	0000—2400	
33			BASILAN CITY	PHL	121E58 06N42	C 9	1	0.4				A	91	3	2100—1600	
34			DAVAO CITY	PHL	125E36 07N03	C 9	5	7.4				A	91	3	2100—1600	
35			TACLOBAN CITY	PHL	125E00 11N13	C 9	1	0.4				A	91	3	2100—1600	
36			WARSZAWA 2	POL	21E17 52N27	C 9	1500	33.9				A	174	4	0000—2400	
37			DONGOLA	SDN	30E30 19N10	A20	100	24.0	55			A	235	4	0600—1600	24
38			BANGKOK	THA	100E33 13N47	A20	10	10.0				A	30	2	0000—2400	
39			SATUL	THA	100E04 06N37	A20	10	10.4				A	88	3	0000—2400	
40			KZYL ORDA	URS	65E30 44N50	A18	150	25.7	0	140—220	15.7	B		4	0000—2400	
41			TETIUKHE	URS	135E50 44N20	A18	50	22.0	350	90—170	9.0	B		4	0000—2400	
42			SAIGON	VTN	106E38 10N51	C10	10	10.0				A	30	3	2300—1300	
43			LUSAKA	ZMB	28E07 15S30	A20	500	29.0	330	60—120	29.0	B		4	0200—2100	
44			LUSAKA	ZMB	28E07 15S30	A20	500	23.0	150	180—240	23.0	B				

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	828		FAIZABAD	AFG	70E33 37N10	C 9	10	10.4				A	60	4	0100—2000	
2	(34)		BEESHA	ARS	42E45 20N15	C 9	20	13.6				A	120	4	0400—1400	
3			MEDINAH	ARS	39E33 24N28	C10	20	13.5				A	92	4	0000—2400	
4		S	BUSSELTON WA	AUS	115E13 33S39	A20	2	5.1				A	183	2	2100—1600	
5		S	DOOEN VIC	AUS	142E15 36S38	A20	10	12.1				A	201	2	1900—1400	
6		S	GERALDTON WA	AUS	114E37 28S44	A20	2	3.4				A	61	3	2100—1600	
7			NAMBOUR QLD	AUS	153E03 26S37	A20	5					B		4	1900—1400	
8		S	SALE VIC	AUS	147E06 38S11	A20	10	12.1				A	152	2	1900—1400	
9		S	S CRUZ FLORES	AZR	31W08 39N27	A20	1	0.4				A	60	4	0000—2400	
10		S	V DO PORTO	AZR	25W08 36N57	A20	1	0.4				A	60	4	0000—2400	
11		S	BLAGOEVGRAD	BUL	23E18 42N06	C 9	30	15.4				A	142	5	0000—2400	
12		S	CHOUMEN	BUL	26E38 42N59	C 9	500	30.4				A	205	3	0000—2400	
13		S	BAOAN	CHN	114E05 22N38	A20	10	10.4				A	90	4	2000—1800	
14			BEIJING	CHN	116E27 39N57	A20	50	17.4				A	90	4	2000—1800	
15		S	HAIKOU	CHN	110E15 20N02	A20	100	22.1				A	180	4	2000—1800	
16		S	HUAIJI	CHN	112E11 23N55	A20	10	10.4				A	90	4	2000—1800	
17		S	LUFENG	CHN	115E38 22N57	A20	40	16.4				A	90	4	2000—1800	
18		S	MAOMING	CHN	110E51 21N56	A20	50	17.4				A	90	4	2000—1800	
19		S	MEI XIAN	CHN	116E00 24N20	A20	100	22.1				A	180	4	2000—1800	
20			GALLE	CLN	80E12 06N05	C10	10	10.4				A	50	5	0000—1800	
21			KOMONO	COG	13E14 03S16	A20	5	7.4				A	91	5	0000—2400	
22		S	BADEN BADEN	D	08E15 48N46	D 9	1.5	2.2				A	50	4	0000—2400	
23		S	FREIBURG	D	07E48 48N01	D 9	40	16.4				A	92	4	0000—2400	
24		S	HANNOVER	D	09E44 52N20	D 9	100	20.6				A	119	4	0800—1600	
25		S	HANNOVER	D	09E44 52N20	D 9	5	7.6				A	119	4	1600—0800	
26		S	KIEL	D	10E04 54N20	D 9	0.5	−0.9				A	192	3	0000—2400	
27			BARCELONA	E	02E10 41N25	D 9	20	13.4				A	98	5	0000—2400	19
28			ARBA MINCHE	ETH	37E06 06N03	C 9	200	25.1				A	194	3	0400—2300	
29			BOURNEMOUTH	G	01W54 50N44	A20	0.5	−5.0				A	45	4	0000—2400	
30			LEEDS	G	01W34 53N45	A20	0.3	−4.8				A	61	3	0000—2400	
31			LUTON	G	00W29 51N54	A20	0.3	−6.9				B		4	0000—2400	
32			SEDGLEY	G	02W08 52N32	A20	0.2	−7.0				A	50	3	0000—2400	
33			NSAWAM	GHA	00W20 05N47	C 9	50	17.0				A	250	4	0500—2300	
34			KISSIDOUGOU	GUI	10W06 09N11	C 9	20	13.4				A	64	4	0000—2400	
35			ROTTERDAM	HOL	04E27 51N53	D 9	2	3.0				A	40	4	0000—2400	
36			BARODA	IND	73E16 22N17	A20	300	26.9				A	185	3	0300—0900	25
37			KANPUR	IND	80E19 26N28	A20	300	26.9				A	185	3	0300—0900	25
38			PANAJI GOA 1	IND	73E51 15N28	A20	300	26.9				A	185	4	0300—1000	25
39			PANAJI GOA 2	IND	73E51 15N28	A20	10	12.1				A	185	4	1000—0300	
40			PONDICHERRY	IND	79E54 12N00	A20	300	26.9				A	185	3	0300—1000	25
41			SILCHAR	IND	92E47 24N45	A20	300	26.9				A	185	4	0300—0900	25
42			SILCHAR	IND	92E47 24N45	A20	10	12.1				A	185	4	0900—0300	
43			DJAJAPURA	INS	140E39 02S37	A18	5	7.4				A	90	6	2000—1500	
44			CORCA DHUIBHNE	IRL	10W21 52N11	A20	1	0.4				A	61	5	0000—2400	
45			MIKI	J	134E59 34N49	A15	0.1	−9.6				A		5	0000—2400	
46			OSAKA	J	135E34 34N33	A15	300	26.9				A	155	4	0000—2400	
47			SEBHA	LBY	14E25 27N04	D 9	300	29.0	130	250— 10	19.0	B		4	0400—2200	
48			LAHAD DATU	MLA	118E21 05N02	A20	10	12.1				A	150	5	0000—2400	
49			VILANCULOS	MOZ	35E15 22S00	C10	20	13.4				A	60	4	0400—2200	
50			OUJDA	MRC	01W56 34N30	A18	100	20.6				A	110	5	0600—2400	
51			ENUGU	NIG	07E29 06N27	C 9	100	20.6				A	107	4	0500—2300	
52			TAKAPAU	NZL	176E18 40S02	A20	2	3.4				A	50	4	0000—2400	
53			KARACHI	PAK	67E04 24N51	A20	100	22.1				A	202	4	0000—2000	
54			ILIGAN CITY	PHL	124E14 08N13	C 9	1	0.4				A	90	3	2100—1600	



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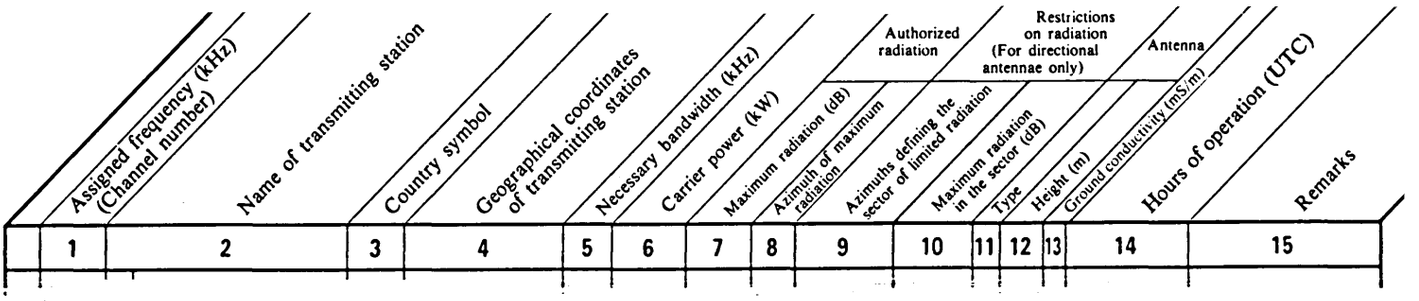
1	828		LEGASPI CITY	PHL	123E43 13N09	C 9	1	0.4				A	90	3	2100—1600	
2	(34)		TARLAC TARLAC	PHL	120E35 15N29	C 9	5	7.4				A	90	3	2100—1600	
3		S	CASTELO BRANCO	POR	07W31 39N49	A20	1	0.4				A	90	4	0000—2400	
4		S	GUARDA	POR	07W16 40N32	A20	1	0.4				A	90	5	0000—2400	
5		S	LEIRIA	POR	08W46 39N46	A20	1	0.4				A	90	5	0000—2400	
6			SINGAPORE 1	SNG	103E42 01N20	A20	50	17.4				A	90	4	0000—2400	
7			DEIR 2	SYR	40E12 35N25	C 9	1500	40.0	140	300—360	15.0	B		5	0600—1500	32
8			DEIR 2	SYR	40E12 35N25	C 9	100	28.0	140	300—360	4.0	B		5	1500—0600	32
9			CHON BURI	THA	100E50 12N55	A20	20	13.4				A	60	2	0000—2400	
10			BIDE ZAYED	UAE	53E47 23N14	C 9	20	13.4				A	60	7	0400—1500	
11			GORKII	URS	44E00 56N17	A18	150	25.7	40	170—280	9.7	B		4	0000—2400	
12			KYZYL	URS	94E28 51N43	C 9	50	20.4				A	220	4	0000—2400	
13			VRBOVEC	YUG	16E25 45N53	D 9	1	0.4				A	50	3	0800—1500	7
14			MONGU	ZMB	23E08 15S15	A20	50	17.6				A	145	4	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	837		ERSEKE	ALB	20E35 40N20	A20	1	0.4				A	89	5	0400—2300	
2	(35)		DJANET	ALG	09E24 24N32	A20	20	13.4				A	80	5	0600—2400	24
3		S	ESPERANCE WA	AUS	121E52 33S45	A20	2	3.4				A	62	2	2100—1600	
4		S	KALGOORLIE WA	AUS	121E24 30S47	A20	10	10.6				A	123	2	2100—1600	
5			MELBOURNE VIC	AUS	145E00 38S00	A20	0.1	−9.6				A		2	1900—1400	
6			QUEENSTOWN TAS	AUS	145E32 42S05	A20	0.5	−3.0				A	46	5	1900—1400	
7		S	ROCKHAMPTON QL	AUS	150E27 23S27	A20	10	10.6				A	128	3	1900—1400	
8		S	TOWNSVILLE QLD	AUS	147E20 19S31	A20	10	12.1				A	198	4	1900—1400	
9			PNT DELGADA	AZR	25W40 37N45	A20	10	10.4				A	90	4	0000—2400	
10			TIANJIN	CHN	117E09 39N09	A20	10	10.4				A	90	4	2000—1800	
11			WUHAN	CHN	114E20 30N36	A20	300	26.9				A	180	4	2000—1800	
12			LAS PALMAS	CNR	15W25 28N05	D 9	10	10.2				A	70	4	0000—2400	
13			BOUNA	CTI	03W00 09N16	C 9	1	0.4				A		7	0600—2400	
14			NANCY	F	06E14 48N53	D 9	300	26.9				A	165	4	0000—2400	
15			KYYJARVI	FNL	24E14 63N02	D 9	100	22.1				A	200	5	0000—2400	
16			LEICESTER	G	01W08 52N37	A20	0.7	−3.5				B		3	0000—2400	
17			BHOPAL	IND	77E36 23N16	A20	300	26.9				A	180	3	0300—0900	25
18			SURATGARH 1	IND	73E54 29N24	A20	300	26.9				A	180	3	0300—0900	25
19			VIJAYAWADA	IND	80E39 16N31	A20	300	26.9				A	180	3	0000—2400	
20			ATAMBUA	INS	124E49 09S12	A18	2	3.4				A	90	7	2100—1600	
21			SHIRAZ	IRN	52E32 29N36	A20	400	28.1				A	164	3	0100—2200	
22			NIIGATA	J	138E55 37N51	A15	10	10.6				A	136	4	0000—2400	
23			SEOUL	KOR	126E49 37N36	C10	50	17.6				A	133	5	0000—2400	
24			SAMSU	KRE	128E02 41N17	A16	1	0.4				A	50		2000—1800	
25			HAMAT	LBN	35E41 34N17	A20	600	33.0	198	285—340	9.0	B		4	0300—2400	24
26			HARPER	LBR	07W42 04N22	A20	10	10.6				A	128	5	0500—2400	
27			KOTA BAHRU	MLA	102E14 06N06	A20	10	10.4				A	100	5	2200—1700	
28			ULGEI	MNG	89E48 49N08	A18	5	7.6				A	120	5	2200—1500	
29			V FONTES	MOZ	35E15 17S54	C10	5	7.4				A	90	4	0400—2200	
30			SELIBABY	MTN	12W11 15N14	B20	20	13.4				A	90		0600—2400	24
31			NIUE I	NIU	169W55 19S02	A20	2	3.4				A	75	9	0000—2400	
32		S	KAITAIA	NZL	173E15 35S03	A20	2	3.4				A	50	4	0000—2400	
33		S	WHANGAREI	NZL	174E19 35S41	A20	2	3.4				A	50	4	0000—2400	
34			GENERAL SANTOS	PHL	125E10 06N06	C 9	1	0.4				A	90	3	2100—1600	
35			ILOILO CITY	PHL	122E33 10N40	C 9	5	7.4				A	89	3	2100—1600	
36			VIGAN ILOCO SO	PHL	120E22 17N34	C 9	5	7.4				A	89	3	2100—1600	
37			WADI HALFA	SDN	31E18 21N54	A20	50	20.4				A	230	4	0400—1500	24
38			BUKOBA	TGK	31E36 01S48	C 9	20	13.6				A	145	4	0300—2100	
39			SAKON NAKHON	THA	104E02 17N02	A20	50	17.4				A	90	3	0000—2400	
40			EDIRNE	TUR	26E33 41N40	D 9	300	30.0	190	280—100	10.0	B		4	0200—2300	
41			KMARKOV	UKR	36E14 49N58	A16	150	25.2				A	220	4	0000—2400	
42			BAKU	URS	49E45 40N24	C10	20	16.4				A	220	4	0000—2400	
43			SPASSK DALNII	URS	132E47 44N38	A18	10	13.4				A	220	4	0000—2400	
44			TURA	URS	100E17 64N16	A16	50	20.4				A	220	5	0000—2400	
45			DUBROVNIK	YUG	18E07 42N39	D 9	20	13.4				A	90	4	0800—1500	
46			NOVI SAD	YUG	19E29 45N45	D 9	50	20.0	50	100—140	17.0	B		2	0000—2400	
47			NOVI SAD	YUG	19E20 45N45	D 9	50	20.0	190	270—330	2.0	B				
48			KINSHASA	ZAI	15E15 04S20	C 9	10	12.1				A		8	0000—2400	

ARCHIVES U.I.T. GENEVE

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	846		BURAIDA	ARS	44E00 26N20	C10	20	13.3				A	68	4	0000—2400	24
2	(36)		CAIRNS QLD	AUS	145E48 16S54	A20	5					B		5	1900—1400	
3			CANBERRA ACT	AUS	149E07 35S13	A20	10	12.1				A	192	3	1900—1500	
4			CARNARVON WA	AUS	113E40 24S52	A20	10	10.0				A	34	2	2100—1600	
5			KEMPSEY NSW	AUS	152E50 31S06	A20	10	12.1				A		3	1900—1400	
6			RAJSHAHI	BGD	88E50 24N20	A20	100	20.6				A	122	3	0000—1800	
7			BOSE	CHN	106E37 23N54	A20	10	10.4				A	90	4	2000—1800	
8			CHANGZHOU	CHN	119E57 31N47	A20	10	10.4				A	90	3	2000—1800	
9		S	DONGFANG	CHN	108E36 19N06	A20	50	17.4				A	90	4	2000—1800	
10		S	HUIZHOU	CHN	114E24 23N05	A20	100	22.1				A	180	4	2000—1800	
11		S	JIEXI	CHN	115E50 23N26	A20	10	10.4				A	90	4	2000—1800	
12		S	LINFEN	CHN	111E31 36N05	A20	20	13.4				A	90	4	2000—1800	
13		S	LINGQIU	CHN	114E14 39N26	A20	1	0.4				A	90	4	2000—1800	
14		S	LISHI	CHN	111E08 37N31	A20	20	13.4				A	90	4	2000—1800	
15		S	QIONGHAI	CHN	110E26 19N15	A20	10	10.4				A	90	4	2000—1800	
16		S	SHAOGUAN	CHN	113E32 24N47	A20	10	10.4				A	90	4	2000—1800	
17		S	SHUO XIAN	CHN	112E25 39N18	A20	20	13.4				A	90	4	2000—1800	
18		S	YANGQUAN	CHN	113E35 37N52	A20	10	10.4				A	90	4	2000—1800	
19		S	ZHAOQING	CHN	112E27 23N03	A20	20	13.4				A	90	4	2000—1800	
20			TRINCOMALEE	CLN	81E07 08N30	C10	20	13.6				A	102	5	0000—1800	
21			BOROMO	HVO	02W56 11N46	A20	2	3.4				A	89	4	0000—2400	
22			ROMA	I	12E35 41N42	D 9	2000	35.1				A	180	4	0000—2400	
23			AHMEDABAD	IND	72E38 23N02	A20	300	26.9				A	180	3	0000—2400	
24			AIJAL	IND	92E43 23N43	A20	100	22.1				A	180	4	0300—0900	25
25			ALLAHABAD	IND	81E54 25N28	A20	300	26.9				A	180	3	0300—0900	25
26			BHADRAVATI	IND	75E36 13N53	A20	300	26.9				A	180	3	0300—1000	25
27			DAMGHAN	IRN	54E21 36N18	A20	2	3.4				A	88	3	0200—2100	
28			ZEFAT	ISR	35E30 32N58	D 9	5	7.4				A	80	4	0000—2400	33
29			GUJYO HACHIMAN	J	136E57 35N45	A15	0.1	−9.6				A	71	5	0000—2400	
30			HIROSAKI	J	140E27 40N37	A15	1	0.6				A	106	5	0000—2400	
31			HITOYOSHI	J	130E47 32N13	A15	1	0.6				A	108	5	0000—2400	
32			IWAMI	J	132E26 34N53	A15	0.1	−9.6				A	71	5	0000—2400	
33			KAMAISHI	J	141E53 39N16	A15	0.1	−9.6				A	67	5	0000—2400	
34			KORIYAMA	J	140E21 37N21	A15	5	7.6				A	109	5	0000—2400	
35			NIIHAMA	J	133E19 33N58	A15	0.1	−9.6				A	71	5	0000—2400	
36			UWAJIMA	J	132E34 33N13	A15	1	0.6				A	108	5	0000—2400	
37			KISUMU	KEN	34E45 00S05	C 9	100	20.6				A	100	4	0000—2400	
38			TARAWA	KIR	172E56 01N21	A20	10	10.0				A	31	1	1900—1100	
39			ULSAN	KOR	129E21 35N33	C10	10	10.6				A	120	4	0000—2400	
40			JERANTUT	MLA	102E30 03N55	A20	20	13.0				A	46	5	0000—2400	
41			KUCHING	MLA	110E20 01N33	A20	10	10.6				A	137	5	2200—1500	
42			BAUCHI	NIG	09E48 10N18	C 9	50	17.6				A	100	4	0500—2300	
43			UMUAHIA	NIG	07E26 05N31	C 9	1	0.4				A	86	4	0500—2300	
44			MASTERTON	NZL	175E35 40S58	A20	5	7.4				A	55	4	0000—2400	
45			CAGAYAN DE ORO	PHL	124E39 08N28	C 9	10	10.4				A	88	3	2100—1600	
46			MALOLOS BUL	PHL	120E49 14N51	C 9	50	22.0	160	70—250	5.0	B		3	2100—1600	
47			OUSSOUYE	SEN	16W32 12N29	C 9	1	0.0				A	45	5	0600—2400	
48			S TOME	STP	06E45 00N21	A20	5	7.4				A	89	3	0000—2400	
49			CES BUDEJOVICE	TCH	14E31 48N58	A20	30	15.4				A	100	5	0400—1700	7
50			OSTRAVA	TCH	18E12 49N48	A20	30	15.4				A	100	5	0400—1700	7
51			BANGKOK	THA	100E30 13N45	A20	10	10.0				A	30	2	0000—2400	
52			SIVAS	TUR	37E14 39N56	D 9	300	30.0	120	180—200	15.0	B		4	0200—2300	
53			SIVAS	TUR	37E14 39N56	D 9	300	30.0		200— 40	10.0	B				
54			UMM AL QUWAIN,	UAE	55E34 25N34	C 9	20	13.0				A	55	5	0200—2000	24



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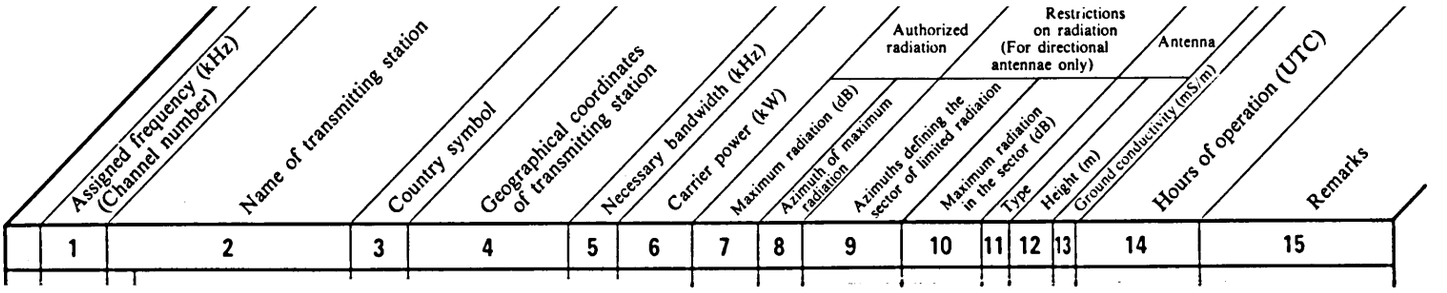
1	846	ELISTA	URS	44E15 46N19	A16	30	18.2				A	220	4	0000—2400	
2	(36)	MOSKVA	URS	37E08 55N54	A16	60	21.2				A	220	4	0300—1500	
3		MOSKVA	URS	37E08 55N54	A16	20	16.4				A	220	4	1500—0300	
4		TSELINOGRAD	URS	71E23 51N12	A16	50	20.4				A	220	4	0000—2400	
5		KAMINA	ZAI	25E09 08S43	C 9	10	10.4				A	60	8	0000—2400	

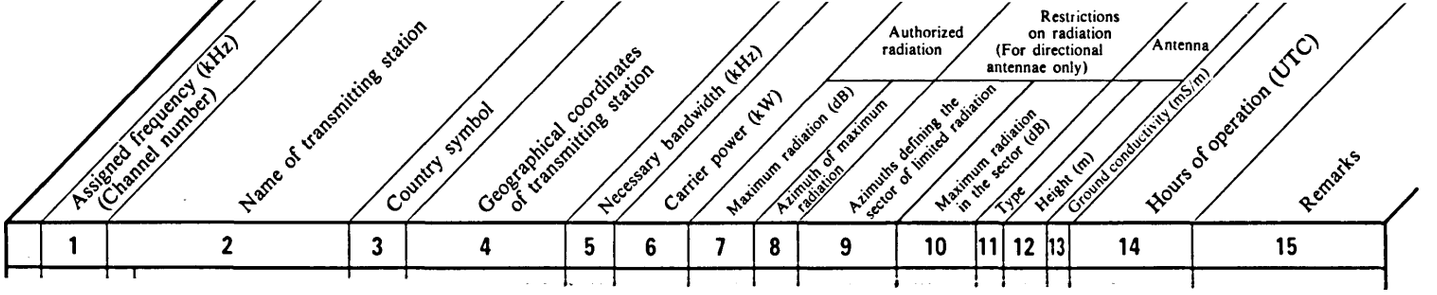


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	855		HUAMBO	AGL	15E42 12S45	A20	5	7.4				A	88	3	0000—2400	
2	(37)		SETIF	ALG	05E24 36N11	D 9	4	6.0				A	45	4	0600—2400	24
3			DAMMAM	ARS	50E10 26N24	C 9	1000	35.0	300	70—170	21.0	B		3	0300—1500	24
4		S	EIDSVOLD QLD	AUS	151E07 25S24	A20	10	10.6				A	137	4	1900—1400	
5		S	PIALBA QLD	AUS	152E49 25S17	A20	10					B		4	1900—1400	
6		S	ANKANG	CHN	109E05 32N44	A20	5	7.4				A	90	4	2000—1800	
7		S	ANYUAN	CHN	115E24 25N09	A20	5	7.4				A	90	4	2000—1800	
8		S	BAODING	CHN	115E33 38N51	A20	50	17.4				A	90	4	2000—1800	
9		S	BIJIANG	CHN	98E52 26N34	A20	10	10.4				A	90	5	2000—1800	
10		S	BINCHUAN	CHN	100E33 25N50	A20	10	10.4				A	90	5	2000—1800	
11		S	BUSHENG	CHN	81E09 30N17	A20	10	11.0	50	170—200	3.0	B		5	2000—1800	
12		S	CHANGNING	CHN	99E29 24N51	A20	10	10.4				A	90	5	2000—1800	
13		S	CHANGTING	CHN	116E18 25N50	A20	10	10.4				A	90	4	2000—1800	
14		S	CHENGDU	CHN	104E00 30N42	A20	50	17.4				A	90	4	2000—1800	
15		S	CHUNAN	CHN	118E58 29N36	A20	10	10.4				A	90	4	2000—1800	
16		S	DENGKOU	CHN	106E43 40N10	A20	20	13.4				A	90	4	2000—1800	
17		S	DINGHAI	CHN	122E06 30N01	A20	5	7.4				A	90	4	2000—1800	
18		S	EJENHORO QI	CHN	109E41 39N15	A20	10	10.4				A	90	4	2000—1800	
19		S	FUAN	CHN	119E33 27N11	A20	10	10.4				A	90	4	2000—1800	
20		S	FUHAI	CHN	87E45 47N00	A20	1	0.4				A	90	4	2000—1800	
21		S	FUYUN	CHN	89E33 47N00	A20	10	10.4				A	90	4	2000—1800	
22		S	GEGYA	CHN	80E58 32N30	A20	10	11.0	50	140—210	5.0	B		5	2000—1800	
23		S	GEJIU	CHN	103E08 23N21	A20	20	13.4				A	90	5	2000—1800	
24		S	GONGHE	CHN	100E40 36N18	A20	20	13.4				A	90	5	2000—1800	
25		S	HAIYUAN	CHN	105E39 36N34	A20	20	13.4				A	90	4	2000—1800	
26		S	HE XIAN	CHN	111E39 24N28	A20	10	10.4				A	90	4	2000—1800	
27		S	HORQIN YQ QI	CHN	122E04 46N04	A20	10	10.4				A	90	4	2000—1800	
28		S	HOTAN	CHN	80E02 37N00	A20	10	10.4				A	90	4	2000—1800	
29		S	HUALIAN	CHN	121E37 23N55	A20	50	17.4				A	90	5	2000—1800	
30		S	HUANGCHUAN	CHN	115E02 32N07	A20	5	7.4				A	90	4	2000—1800	
31		S	JIANHE	CHN	108E45 26N39	A20	20	13.4				A	90	5	2000—1800	
32		S	JIANYANG	CHN	118E08 27N20	A20	20	13.4				A	90	4	2000—1800	
33		S	JIAYI	CHN	120E26 23N28	A20	50	17.4				A	90	5	2000—1800	
34		S	JINGHONG	CHN	100E43 22N01	A20	20	13.4				A	90	5	2000—1800	
35		S	JINING	CHN	113E05 41N02	A20	20	13.4				A	90	4	2000—1800	
36		S	JIUJIANG SHI	CHN	116E10 29N39	A20	10	10.4				A	90	4	2000—1800	
37		S	KASHI	CHN	76E00 39N25	A20	10	10.4				A	90	4	2000—1800	
38		S	KUANCHENG	CHN	118E29 40N36	A20	10	10.4				A	90	4	2000—1800	
39		S	LHASA	CHN	90E59 29N30	A20	100	22.0	120	250—280	11.0	B		5	2000—1800	
40		S	LIAOYUAN	CHN	125E10 42N52	A20	5	7.4				A	90	4	2000—1800	
41		S	LINGSHAN	CHN	109E17 22N25	A20	10	10.4				A	90	4	2000—1800	
42		S	LINHAI	CHN	121E07 28N51	A20	20	13.4				A	90	4	2000—1800	
43		S	LIUZHOU	CHN	109E12 24N18	A20	20	13.4				A	90	4	2000—1800	
44		S	LONG XIAN	CHN	106E51 34N49	A20	10	10.4				A	90	4	2000—1800	
45		S	LONGLIN	CHN	105E27 24N43	A20	10	10.4				A	90	4	2000—1800	
46		S	LONGQUAN	CHN	119E07 28N04	A20	10	10.4				A	90	4	2000—1800	
47		S	LUOHE	CHN	114E01 33N32	A20	20	13.4				A	90	4	2000—1800	
48		S	MAQEN	CHN	100E09 34N22	A20	20	13.4				A	90	5	2000—1800	
49		S	MEITAN	CHN	107E29 27N46	A20	10	10.4				A	90	5	2000—1800	
50		S	MENYUAN	CHN	101E37 37N23	A20	10	10.4				A	90	5	2000—1800	
51		S	MIAN XIAN	CHN	106E40 33N09	A20	5	7.4				A	90	4	2000—1800	
52		S	NANJING	CHN	118E54 32N06	A20	20	13.4				A	90	3	2000—1800	
53		S	NANTONG SHI	CHN	120E40 32N05	A20	10	10.4				A	90	3	2000—1800	
54		S	NAYONG	CHN	105E15 26N56	A20	10	10.4				A	90	5	2000—1800	

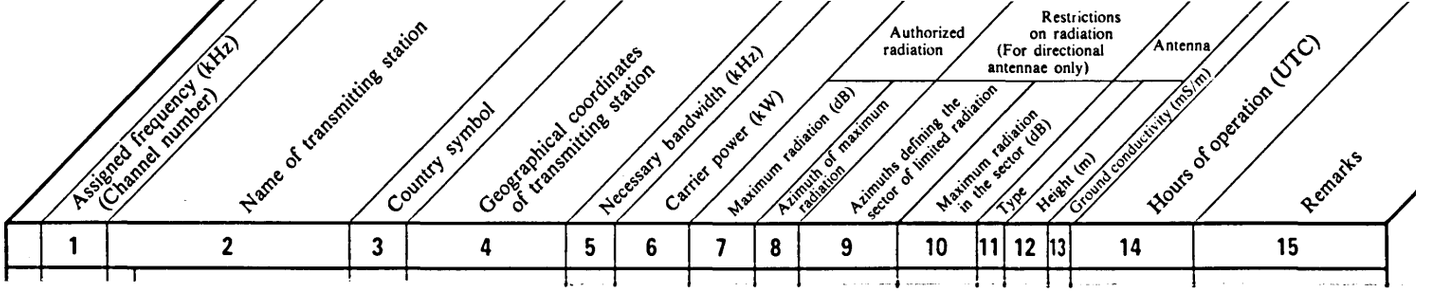
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	855	S	NINGGANG	CHN	113E58 26N46	A20	5	7.4				A	90	4	2000—1800	
2	(37)	S	PINGGUO	CHN	107E33 23N19	A20	10	10.4				A	90	4	2000—1800	
3		S	PINGNAN	CHN	110E24 23N33	A20	10	10.4				A	90	4	2000—1800	
4		S	QINGFENG	CHN	115E06 35N54	A20	10	10.4				A	90	4	2000—1800	
5		S	QUANZHOU	CHN	111E04 25N56	A20	10	10.4				A	90	4	2000—1800	
6		S	QUANZHOU 2	CHN	118E33 24N53	A20	10	10.4				A	90	4	2000—1800	
7		S	QUJING	CHN	103E40 25N28	A20	10	10.4				A	90	5	2000—1800	
8		S	RUOQIANG	CHN	88E10 39N00	A20	10	10.4				A	90	4	2000—1800	
9		S	RUTO	CHN	79E44 33N25	A20	10	11.0	50	170—210	5.0	B		5	2000—1800	
10		S	SHANGQIU SHI	CHN	115E39 34N27	A20	10	10.4				A	90	4	2000—1800	
11		S	SHANGRAO SHI	CHN	118E15 28N20	A20	10	10.4				A	90	4	2000—1800	
12		S	SHAOXING	CHN	120E34 30N00	A20	10	10.4				A	90	4	2000—1800	
13		S	SHENMU	CHN	110E30 38N49	A20	10	10.4				A	90	4	2000—1800	
14		S	SHUANGLIAO	CHN	123E30 43N31	A20	10	10.4				A	90	4	2000—1800	
15		S	SUNID YOUQI	CHN	113E35 43N45	A20	10	10.4				A	90	4	2000—1800	
16		S	SUQIAN	CHN	118E18 33N57	A20	5	7.4				A	90	3	2000—1800	
17		S	TACHENG	CHN	83E05 46N45	A20	10	10.4				A	90	4	2000—1800	
18		S	TAIBEI SHI	CHN	121E28 25N05	A20	50	17.4				A	90	5	2000—1800	
19		S	TAIDONG	CHN	121E08 22N47	A20	20	13.4				A	90	5	2000—1800	
20		S	TONGYU	CHN	123E05 44N49	A20	20	13.4				A	90	4	2000—1800	
21		S	TURPAN	CHN	89E02 42N53	A20	10	10.4				A	90	4	2000—1800	
22		S	WEICHANG	CHN	117E45 41N57	A20	5	7.4				A	90	4	2000—1800	
23		S	WUXING	CHN	120E07 30N51	A20	5	7.4				A	90	4	2000—1800	
24		S	XI UJUMQIN QI	CHN	117E33 44N38	A20	20	13.4				A	90	4	2000—1800	
25		S	XIAN	CHN	108E54 34N12	A20	50	17.4				A	90	4	2000—1800	
26		S	XINGGUO	CHN	115E21 26N20	A20	5	7.4				A	90	4	2000—1800	
27		S	XINGTAI SHI	CHN	114E31 37N04	A20	5	7.4				A	90	4	2000—1800	
28		S	XINHE	CHN	82E40 41N25	A20	10	10.4				A	90	4	2000—1800	
29		S	YANCHENG	CHN	120E08 33N24	A20	10	10.4				A	90	3	2000—1800	
30		S	YANJI SHI	CHN	129E30 42N54	A20	5	7.4				A	90	4	2000—1800	
31		S	YICHUN 1	CHN	114E25 27N48	A20	10	10.4				A	90	4	2000—1800	
32		S	YINCHUAN	CHN	106E12 38N30	A20	50	17.4				A	90	4	2000—1800	
33		S	YINING SHI	CHN	81E28 43N55	A20	10	10.4				A	90	4	2000—1800	
34		S	YIWU	CHN	94E40 43N20	A20	1	0.4				A	90	4	2000—1800	
35		S	YUSHU 1	CHN	126E32 44N50	A20	20	13.4				A	90	4	2000—1800	
36		S	ZHAOTONG	CHN	103E34 27N20	A20	10	10.4				A	90	5	2000—1800	
37		S	ZHENFENG	CHN	105E40 25N14	A20	20	13.4				A	90	5	2000—1800	
38		S	ZHENGLAN QI	CHN	116E00 42N18	A20	10	10.4				A	90	4	2000—1800	
39		S	ZHENGZHOU	CHN	113E42 34N42	A20	50	17.4				A	90	4	2000—1800	
40		S	ZHIDAN	CHN	108E46 36N50	A20	10	10.4				A	90	4	2000—1800	
41		S	ZIZHOU	CHN	110E02 37N37	A20	10	10.4				A	90	4	2000—1800	
42			AMPARAI	CLN	81E40 07N20	A10	50	17.6				A	108	5	0000—1800	
43			BOUAFLE	CTI	05W45 06N58	C 9	200	25.1				A		7	0600—2400	
44			C GRECO	CYP	34E04 34N57	C 9	50	19.1				A	190	5	0530—1330	2/0111/2802
45			C GRECO	CYP	34E04 34N57	C 9	50	19.1				A	190		0300—1600	2/0103/3110
46			C GRECO	CYP	34E04 34N57	C 9	10	12.1				A	190	5	1330—0530	2/0111/2802
47			C GRECO	CYP	34E04 34N57	C 9	10	12.1				A	190		1600—0300	2/0103/3110
48			BERLIN 2	D	13E26 52N27	D 9	100	21.0				A	140	4	0800—1500	11/USA
49			BERLIN 2	D	13E26 52N27	D 9	100	24.0	300	90—170	9.0	B		4	1500—0800	11/USA
50		S	CD RODRIGOE	E	06W32 40N36	D 9	0.3	—4.8				A	50	5	0000—2400	19
51		S	EIBAR	E	02W26 43N11	D 9	1	0.4				A	50	5	0000—2400	19
52		S	GUADIX	E	03W08 37N18	D 9	0.3	—4.8				A	50	5	0000—2400	19

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	855	S	HUELVA	E	06W57 37N16	D 9	1	0.0				A	50	4	0400—1700	
2	(37)	S	HUELVA	E	06W57 37N16	D 9	0.3	−5.0				A	50	4	1700—0400	
3		S	JODAR	E	03W21 37N50	D 9	0.3	−4.8				A	50	5	0000—2400	19
4		S	LERIDA	E	00E38 41N37	D 9	1	0.4				A	50	4	0000—2400	19
5		S	LUGO	E	07W33 43N01	D 9	1	0.4				A	50	5	0000—2400	19
6		S	MURCIA	E	01W15 38N02	D 9	250	26.1				A	183	4	0000—2400	18/ROU 19
7		S	PALENCIA	E	04W33 42N01	D 9	0.5	−2.6				A	50	4	0000—2400	19
8		S	PAMPLONA	E	01W38 42N49	D 9	1	0.4				A	50	4	0000—2400	19
9		S	PLASENCIA	E	06W05 40N02	D 9	0.3	−4.8				A	50	5	0000—2400	19
10		S	PONFERRADA	E	06W35 42N33	D 9	1	0.4				A	50	4	0000—2400	19
11		S	PONTEVEDRA	E	08W43 42N20	D 9	20	13.4				A	96	5	0000—2400	19
12		S	PUERTOLLANO	E	04W06 38N42	D 9	0.5	−2.6				A	50	4	0000—2400	19
13		S	SANTANDER	E	03W51 43N28	D 9	20	13.6				A	100	5	0000—2400	19
14		S	TERUEL	E	01W06 40N21	D 9	0.3	−4.8				A	50	5	0000—2400	19
15		S	VIVERO	E	07W36 43N40	D 9	0.3	−4.8				A	50	5	0000—2400	19
16		S	ZAMORA	E	05W45 41N30	D 9	0.5	−2.6				A	50	4	0000—2400	19
17			HARRAR	ETH	42E08 09N18	C 9	150	23.9				A	186	3	0400—2300	
18			BLACKBURN	G	02W34 53N43	A20	0.5	−3.0				A	38	3	0000—2400	
19			PLYMOUTH	G	04W08 50N24	A20	1	0.0				A	34	5	0000—2400	
20			POSTWICK	G	01E24 52N38	A20	1	2.0	287	60—170	−4.0	B		3	0000—2400	
21			ALLEPPEY	IND	76E23 09N30	A20	300	26.9				A	175	4	0300—1000	25
22			AURANGABAD	IND	75E18 19N54	A20	300	26.9				A	175	3	0300—1000	25
23			SAMBALPUR	IND	84E01 21N28	A20	300	26.9				A	175	3	0300—0900	25
24			MATARAM	INS	116E08 08S36	A18	5	7.4				A	86	4	2100—1600	
25			MEDAN	INS	98E39 03N35	A18	100	22.1				A	163	5	2200—1400	
26			AMMAN	JOR	35E53 31N54	C 9	10	12.1				A	160	4	0500—1800	24
27			MOGPO	KOR	126E33 34N43	C10	50	17.4				A	84	5	0000—2400	
28			SANGWON	KRE	126E06 38N51	A16	500	30.0				B		7	2000—1000	
29			SANGWON	KRE	126E06 38N51	A16	250	27.0				B		7	1000—1800	
30			PT HARCOURT	NIG	06E49 04N59	C 9	40	22.0	300			B		4	0500—2300	
31			POKHRA	NPL	83E58 28N16	A20	10	10.6				A	120	4	2200—1900	
32			HAMILTON	NZL	175E20 37S48	A20	2	3.4				A	50	3	0000—2400	
33			QUETTA	PAK	67E00 30N10	A20	100	20.6				A	121	4	0000—2000	
34			NAGA CITY	PHL	123E10 13N39	C 9	5	7.4				A	87	3	2100—1600	
35			TAGUM DAVAO	PHL	125E47 07N26	C 9	1	0.4				A	87	3	2100—1600	
36			BUCURESTI	ROU	26E06 44N37	C 9	1500	33.9				A	186	5	0000—2400	18/E
37			SOBA	SDN	32E40 15N30	A20	500	30.0	212	92—152	23.0	B		3	0400—2400	24
38			DAMAS 2	SYR	36E56 33N25	C 9	500	32.0	210			B		5	0500—1500	
39			DAMAS 2	SYR	36E56 33N25	C 9	100	25.0	210			B		5	1500—0500	
40			AMGA	URS	132E00 61N01	A16	50	20.4				A	220	5	0000—2400	
41			TCHELIABINSK	URS	61E24 55N09	C10	150	25.2				A	220	4	0000—2400	
42			CHIPATA	ZMB	32E43 13S22	A20	50	23.0	260	350— 50	15.0	B		4	0200—2100	
43			CHIPATA	ZMB	32E43 13S22	A20	50	23.0		110—170	15.0	B				



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	864	KANDAHAR	AFG	65E40 31N40	C 9	20	13.4				A	60	4	0100—2000	
2	(38)	LUANDA	AGL	13E49 08S48	A20	1	0.4				A	87	3	0000—2400	
3		KELCYRA	ALB	20E12 40N18	A20	1	0.4				A	87	6	0400—2300	
4		DAMMAM	ARS	50E10 26N24	C 9	500	31.0	120	220— 20	18.0	B		3	1500—0300	
5		JEDDAH	ARS	39E09 21N14	C10	500	32.0	130	260—360	12.0	B		3	0300—1500	
6		HOBART TAS	AUS	147E19 42S55	A20	5	7.4				A	88	5	0000—2400	
7		NORTHAM WA	AUS	116E37 31S40	A20	5	7.4				A	76	3	1900—1400	
8		TOOWOOMBA QLD	AUS	151E55 27S36	A20	5	7.4				A	84	3	1900—1400	
9		COTONOU	BEN	02E28 06N22	C10	20	13.4				A	87	4	0500—2400	
10		PLOVDIV	BUL	24E41 42N04	C 9	150	25.2				A	205	3	0300—2400	
11	S	BO XIAN	CHN	115E46 33N53	A20	10	10.4				A	90	4	2000—1800	
12	S	CHU XIAN	CHN	118E18 32N19	A20	50	17.4				A	90	4	2000—1800	
13	S	HUAINAN	CHN	117E00 32N41	A20	50	17.4				A	90	4	2000—1800	
14		MUDANJIANG	CHN	129E36 44N36	A20	1	0.4				A	60	4	2000—1800	
15	S	TONGLING	CHN	117E47 30N57	A20	50	17.4				A	90	4	2000—1800	
16		AVARUA	CKH	159W46 21S12	C10	3	4.8				A	30	5	1600—0900	
17		JAFFNA	CLN	80E00 09N37	C10	50	17.4				A	84	3	0000—1800	
18		FT ROUSSET	COG	15E35 00S24	A20	10	10.4				A	87		0000—2400	
19		GIZA	EGY	31E00 29N00	D 9	500	33.0	200	305—115	17.0	B		4	0000—2400	
20		PARIS	F	02E13 48N42	D 9	300	25.2				A	72	3	0000—2400	
21		PENG CHAU	HKG	114E02 22N17	A20	10	10.4				A	91	5	0000—2400	
22		SHILLONG 1	IND	91E56 25N34	A20	300	26.9				A	175	3	0300—0900	25
23		SHILLONG 2	IND	91E56 25N34	A20	100	22.1				A	175	3	0900—0300	
24		UDAIPUR	IND	73E47 24N30	A20	300	26.9				A	175	4	0300—0900	25
25		TJIREBON	INS	108E34 06S45	A18	2	3.4				A	87	5	2200—1700	
26		ASAHIKAWA	J	142E27 43N46	A15	3	7.0	60			B		5	0000—2400	
27		FUKUI	J	136E15 36N06	A15	5	10.0	210			B		5	0000—2400	
28		MATSUMOTO	J	137E57 36N14	A15	1	0.6				A	100	5	0000—2400	
29		MURORAN	J	140E59 42N19	A15	3	6.0	10			B		5	0000—2400	
30		TOYOHASHI	J	137E24 34N45	A15	0.1	−9.6				A	68	5	0000—2400	
31		GANGNEUNG	KOR	128E54 37N46	C10	100	20.6				A	130	5	2300—1100	
32		GANGNEUNG	KOR	128E54 37N46	C10	100	24.0	175	40— 70	4.0	B		5	1100—2300	
33		SHINUIJU	KRE	124E30 40N01	A16	250	26.0				B		5	2000—1000	
34		SHINUIJU	KRE	124E30 40N01	A16	125	23.0				B		5	1000—1800	
35		PENANG	MLA	100E18 05N22	A20	10	10.4				A	95	5	2200—1700	
36		KSAR ESSOUK	MRC	04W24 31N55	C 9	600	31.8	120	240—360	24.8	B		5	0500—0300	
37		INVERCARGILL	NZL	168E37 46S19	A20	10	12.1				A	150	3	0000—2400	
38		CEBU CITY	PHL	123E51 10N15	C 9	5	7.4				A	86	3	2100—1600	
39		S PABLO LAG	PHL	121E19 14N04	C 9	1	0.4				A	86	3	2100—1600	
40		MADANG	PNG	145E49 05S13	B10	2	3.4				A	60	5	2000—1400	
41		KENEMA	SRL	11W10 07N50	C 9	50	17.0				A	40	2	0500—2400	
42		CADCA	TCH	18E48 49N27	A20	1	0.4				A	60	5	0000—2400	
43		PISEK	TCH	14E09 49N18	A20	1	0.4				A	60	5	0000—2400	
44		SUMPERK	TCH	16E59 49N58	A20	1	0.4				A	60	5	0000—2400	
45		TRUTNOV	TCH	15E55 50N35	A20	1	0.4				A	60	5	0000—2400	
46		USTI NAD LABEM	TCH	14E02 50N39	C 9	6	7.8				A	50	5	0400—1700	7
47		USTI NAD LABEM	TCH	14E02 50N39	A20	1	0.4				A	60	5	1700—0400	
48		BANGKOK	THA	100E30 13N44	A20	10	10.0				A	30	2	0000—2400	
49		TAK	THA	99E08 16N53	A20	10	10.4				A	90	5	0000—2400	
50		KAMPALA	UGA	32E36 00N20	C 9	20	13.4				A	87	4	0300—2100	
51		EREVAN	URS	44E30 40N10	C10	150	25.2				A	220	4	0000—2400	
52		KARAGANDA	URS	73E05 49N50	A16	500	30.0	70	210—290	12.0	B		4	0000—2400	
53		NARIAN MAR	URS	53E08 68N02	A16	50	20.4				A	220	4	0000—2400	
54		SKOVORODINO	URS	123E58 53N58	A18	50	20.4				A	215	4	0000—2400	



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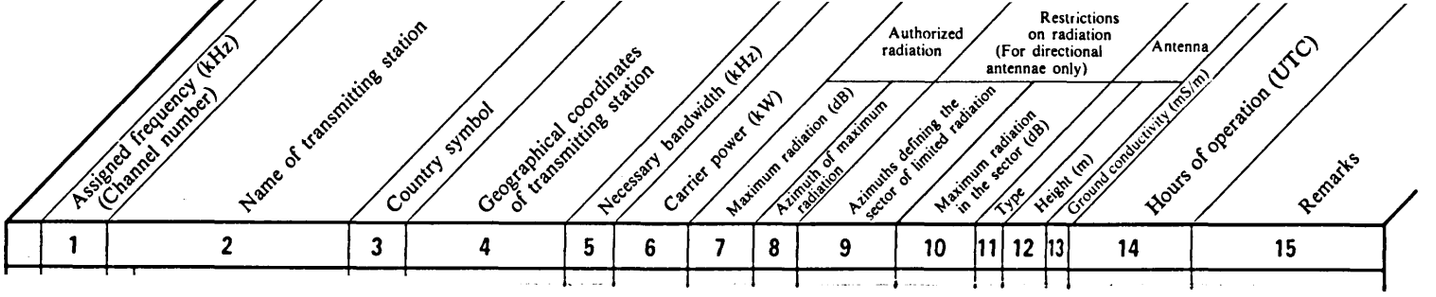
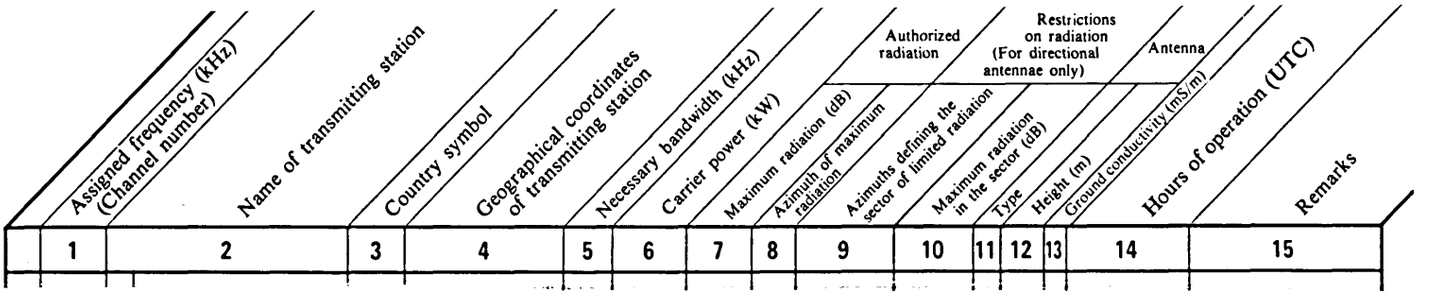
1	864	GRADACAC	YUG	18E21 44N51	D 9	0.1	−9.6				A	50	4	0800—1500	7
2	(38)	IVANICGRAD	YUG	16E24 45N42	D 9	1	0.4				A	50	4	0800—1500	7
3		RIJEKA	YUG	14E26 45N20	D 9	10	10.0				A	60	4	0600—1700	7
4		RIJEKA	YUG	14E26 45N20	D 9	6	7.8				A	60	4	1700—0600	
5		SOKOLAC	YUG	18E47 43N56	D 9	1	0.4				A	50	4	0800—1500	7
6		CHUMBUNI	ZAN	39E12 06S09	C 9	20	13.4				A	87	4	0300—2100	



1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	873	GHARDAIA	ALG	03E49 32N32	D 9	20	13.4				A	80	5	0600—2400	24
2	(39)	S DERBY WA	AUS	123E40 17S21	A20	5	7.0				A	41	3	2100—1600	
3		SYDNEY NSW	AUS	151E05 33S49	A20	5	9.1				A	155	4	0000—2400	
4		S WAGIN WA	AUS	117E05 33S20	A20	5	7.4				A	60	3	2100—1600	
5		HORTA	AZR	28W36 38N32	A20	1	0.4				A	60	4	0000—2400	
6		CHITTAGONG	BGD	91E50 22N21	C 9	100	20.6				A	122	3	0000—1800	
7		S MINSK	BLR	27E34 53N56	A16	150	25.2				A	220	4	0000—2400	
8		S ANXI	CHN	95E32 40N30	A20	10	10.4				A	90	4	2000—1800	
9		S FUJIN	CHN	132E01 47N20	A20	100	22.1				A	180	4	2000—1800	
10		S JAGDAQI	CHN	124E05 50N25	A20	50	17.4				A	90	4	2000—1800	
11		S JIAYUGUAN	CHN	98E12 39N50	A20	10	10.4				A	90	4	2000—1800	
12		S LANZHOU	CHN	103E50 36N02	A20	50	17.4				A	90	4	2000—1800	
13		S LINTAN	CHN	103E21 34N42	A20	10	10.4				A	90	4	2000—1800	
14		S MINQIN	CHN	102E58 38N36	A20	20	13.4				A	90	4	2000—1800	
15		S TIANSHUI SHI	CHN	105E30 34N30	A20	20	13.4				A	90	4	2000—1800	
16		ZHAOQING	CHN	112E27 23N03	A20	5	7.4				A	90	4	2000—1800	
17		DIYAGAMA	CLN	79E58 06N50	C10	50	17.4				A	65	5	0000—1800	
18		FRANKFURT MAIN	D	08E37 50N11	D 9	150	26.7	310	40— 80	6.7	B		4	0000—2400	
19		ZARAGOZA	E	00W55 41N40	D 9	20	13.8				A	120	4	0000—2400	19
20		ABU ZABAL	EGY	31E22 30N16	D 9	200	26.4				A	206	3	0000—2400	24
21		ADDIS ABABA	ETH	38E43 09N17	C 9	150	23.9				A	182	3	0400—2300	
22		KINGS LYNN	G	00E23 52N45	A20	0.3	−5.0	90			B		3	0000—2400	
23		S LAKIHEGY	HNG	19E00 47N22	D 9	20	13.4				A	86	4	0000—2400	
24		S PECS	HNG	18E15 46N05	D 9	20	13.4				A	86	4	0000—2400	
25		HOUNDE	HVO	03W31 11N34	A20	10	10.4				A	86	4	0000—2400	
26		ALMORA	IND	79E38 29N35	A20	300	26.9				A	175	4	0300—0900	25
27		BHAGALPUR	IND	87E02 25N15	A20	300	26.9				A	175	3	0300—0900	25
28		COIMBATORE	IND	77E06 11N00	A20	300	26.9				A	175	4	0300—1000	25
29		JULLUNDUR 1	IND	75E18 31N19	A20	300	26.9				A	175	3	0300—0900	25
30		JULLUNDUR 2	IND	75E18 31N19	A20	100	22.1				A	175	3	0900—0300	
31		FAKFAK	INS	132E17 02S55	A18	5	7.4				A	84	5	2000—1500	
32		SURAKARTA	INS	110E50 07S32	A18	2	3.4				A	75	5	2200—1700	
33		KUMAMOTO	J	130E51 32N54	A15	500	29.1				A	149	4	0000—2400	
34		S ABUGRAIN	LBY	15E15 31N27	A20	10	12.1				A	170	5	0400—2400	24
35		S GATROUN	LBY	14E38 24N56	A20	10	12.1				A	170	5	0400—2400	24
36		LIMBANG	MLA	115E00 04N45	A20	20	13.6				A	113	5	2200—1600	
37		BEIRA	MOZ	34E44 19S36	C10	50	20.0	230			B		4	0400—2200	
38		KAEDI	MTN	13W31 16N09	B20	20	13.4				A	86		0600—2400	24
39		OGUTA	NIG	06E50 05N45	C 9	1	0.4				A	86	4	0500—2300	
40		ASHBURTON	NZL	171E46 43S54	A20	1	0.4				A	50	4	0000—2400	
41		BANGUED ABRA	PHL	120E37 17N35	C 9	5	7.4				A	86	3	2100—1600	
42		BUTUAN AGUSAN	PHL	125E32 08N56	C 9	1	0.4				A	86	3	2100—1600	
43		BURAM	SDN	25E10 10N47	A20	250	30.0	140			B		4	0400—2400	24
44		DAMAS KHARABO	SYR	36E22 33N25	C 9	10	10.0				A	33	3	0700—2200	
45		S VOROCHILOVGRAD	UKR	38E48 48N29	A18	5	10.4				A	220	4	0000—2400	
46		S ABAKAN	URS	91E23 53N35	A18	5	10.4				A	220	4	0000—2400	
47		S ACHKHABAD	URS	58E24 37N57	A18	5	10.4				A	220	4	0000—2400	
48		S GORNO ALTAISK	URS	85E52 51N57	A18	5	10.4				A	220	4	0000—2400	
49		S IOCHKAR OLA	URS	47E50 56N39	A18	5	10.4				A	220	4	0000—2400	
50		S KALININGRAD	URS	20E30 54N45	A18	100	23.4				A	220	4	0000—2400	
51		S KICHINIOV	URS	28E52 47N00	A16	500	32.0	20	140—250	20.0	B		4	0000—2400	
52		LENINABAD	URS	69E37 40N16	A18	5	10.4				A	220	4	0000—2400	
53		S LENINGRAD	URS	30E00 59N44	A16	150	25.2				A	220	4	0000—2400	
54		S MOSKVA	URS	37E18 55N45	A16	150	25.2				A	220	4	0000—2400	



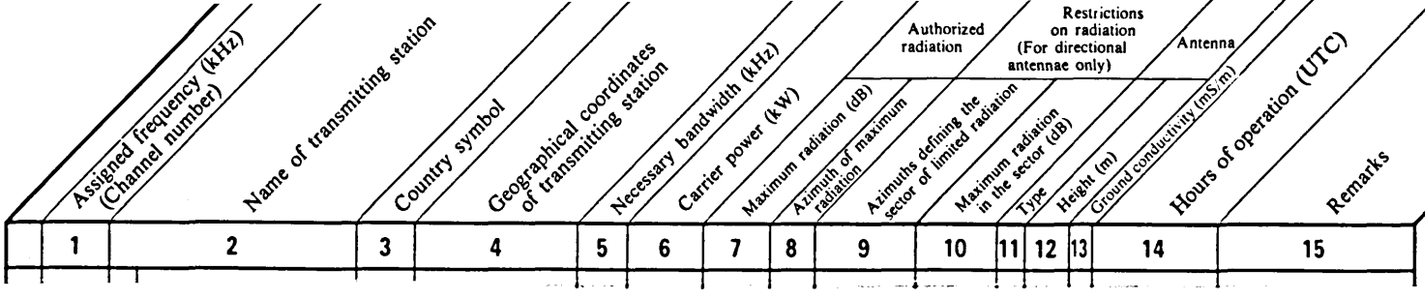
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	873	S ROSSOCH	URS	39E33 50N13	A18	5	10.4				A	220	4	0000—2400	
2	(39)	S RYLSK	URS	34E38 51N33	A18	5	10.4				A	220	4	0000—2400	
3		S TALLIN	URS	24E47 59N27	A18	5	10.4				A	220	4	0000—2400	
4		S ULIANOVSK	URS	48E05 54N19	A16	150	25.2				A	220	4	0000—2400	
5		SAIGON	VTN	106E38 10N51	C10	100	26.0	50			B		3	0000—2400	

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Maximum radiation (dB)	Azimuth of maximum radiation	Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
									Authorized radiation		Restrictions on radiation (For directional antennae only)						
1	882		DAMMAM	ARS	50E10	26N24	C10	100	20.6				A	135	3	0300—2300	24
2	(40)		BRISBANE QLD	AUS	153E08	27S27	A20	5					B		3	0000—2400	
3			PERTH WA	AUS	115E48	32S02	A20	5	7.4				A	86	4	0000—2400	
4			WARRNAMBOOL VC	AUS	142E30	38S20	A20	5					B		2	1900—1400	
5			V DO PORTO	AZR	25W08	36N57	A20	1	0.0				A	90	4	0000—2400	
6		S	CHONGAN	CHN	118E01	27N43	A20	10	10.4				A	90	4	2000—1800	
7		S	FUZHOU 1	CHN	119E24	26N06	A20	100	22.1				A	180	4	2000—1800	
8		S	JIANNING	CHN	116E50	26N53	A20	10	10.4				A	90	4	2000—1800	
9		S	LONGYAN	CHN	117E02	25N07	A20	10	10.4				A	90	4	2000—1800	
10			LUDA	CHN	121E30	38N54	A20	10	10.4				A	90	4	2000—1800	
11		S	NANPING	CHN	118E12	26N45	A20	10	10.4				A	90	4	2000—1800	
12		S	XIAMEN	CHN	118E18	24N24	A20	10	10.4				A	90	4	2000—1800	
13			ANURADHAPURA	CLN	80E30	08N20	C10	20	13.4				A	81	5	0000—1800	
14			LA LAGUNA	CNR	16W20	28N30	D 9	20	13.2				A	65	5	0000—2400	
15			ABIDJAN	CTI	04W01	05N26	C 9	100	22.1				A		5	0600—2400	
16			DIMBOKRO	CTI	04W46	06N40	C 9	10	12.1				A		7	0600—2400	
17			WACHENBRUNN	DDR	10E30	50N29	D 9	250	27.0	40	120—140	5.0	B		4	0000—2400	
18			WACHENBRUNN	DDR	10E30	50N29	D 9	250	27.0		290—330	16.0	B				
19			LUXOR	EGY	32E28	25N42	D 9	5	7.6				A	100	4	0000—2400	24
20		S	PENMON	G	04W05	53N17	A20	20	13.4				A	76	4	0000—2400	
21		S	TYWYN	G	04W06	52N35	A20	5	7.0				A	38	4	0000—2400	
22		S	WASHFORD	G	03W21	51N10	A20	150	25.0	0	70— 80	22.0	B		4	0000—2400	
23		S	WASHFORD	G	03W21	51N10	A20	150	25.0		110—115	19.0	B				
24		S	WREXHAM	G	03W01	53N02	A20	5	7.0				A	38	3	0000—2400	
25			MOANDA	GAB	13E14	01S34	C 9	10	12.1				A		5	0400—2400	
26			GIBRALTAR	GIB	05W21	36N08	A20	1	0.4				A	56	9	0600—2400	
27			IMPHAL	IND	93E58	24N44	C 9	300	26.9				A	170	3	0000—2400	
28			SANGLI	IND	74E36	16N53	A20	300	26.9				A	170	3	0300—1000	25
29			MAHABAD	IRN	45E43	36N46	A20	10	10.4				A	80	3	0200—2100	
30			BET HILEL	ISR	35E36	33N12	D 9	5	7.4				A	60	4	0000—2400	33
31			SHIZUOKA	J	138E25	34N57	A15	10	12.1				A	140	4	0000—2400	
32			KISUMU	KEN	34E45	00S05	C 9	100	20.6				A	100	4	0000—2400	
33			DAEJEON	KOR	127E21	36N23	C10	20	13.6				A	120	4	0000—2400	
34			WONSAN	KRE	127E25	39N04	A16	250	27.0				B		5	2000—1000	
35			WONSAN	KRE	127E25	39N04	A16	125	24.0				B		5	1000—1800	
36			KAJANG	MLA	101E46	02N59	A20	200	25.1				A	150	5	2200—1700	
37			KADUNA	NIG	07E31	10N42	C 9	50	17.6				A	125	4	0500—2300	
38			OHOPOHO	NMB	13E50	18S04	A20	100	23.0	240			B		4	0000—2400	
39			AUCKLAND	NZL	174E38	36S51	A20	10	12.1				A	150	3	0000—2400	
40			COTABATO CITY	PHL	124E14	07N13	C 9	10	10.4				A	85	3	2100—1600	
41			NAVOTAS RIZAL	PHL	120E56	14N40	C 9	10	10.4				A	85	3	2100—1600	
42			MBABANE	SWZ	31E06	26S20	A20	10	10.4				A	50		0400—2200	
43			MELFI	TCD	17E56	11N03	C 9	1	0.4				A			0400—2300	
44			RUZOMBEROK	TCH	19E19	49N04	A20	1	0.4				A	60	5	0000—2400	
45			MEDENINE	TUN	10E32	33N22	D 9	10	10.6				A	100	4	0700—1600	24
46			MEDENINE	TUN	10E32	33N22	D 9	2	3.6				A	100	4	1600—0700	24
47			NALTCHIK	URS	43E35	43N28	C10	150	26.7	40	160—280	11.7	B		4	0000—2400	
48			NARYN	URS	76E00	41N25	A16	500	30.4				A	220	4	0000—2400	
49			ZEIA	URS	127E15	53N44	A18	50	17.4				A	90	4	0000—2400	
50		S	BIJELO POLJE	YUG	19E45	43N02	D 9	10	10.4				A	85	5	0000—2400	
51		S	HERCEGNOVI	YUG	18E30	42N27	D 9	10	10.4				A	85	4	0000—2400	
52		S	PLEVLJA	YUG	19E23	43N22	D 9	10	10.4				A	85	5	0000—2400	
53		S	ROZAJE	YUG	20E10	42N50	D 9	10	10.4				A	85	5	0000—2400	
54		S	TITOGRAD 1	YUG	19E15	42N17	D 9	300	26.9				A	170	5	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	882	S ULCINJ	YUG	19E13 41N55	D 9	1	0.4				A	60	2	0000—2400	
2	(40)	KASAMA	ZMB	31E15 10S15	A20	50	19.1				A	140	4	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	891		DALATANDO	AGL	14E55	09S55	A20	1	0.4				A	87	3	0000—2400	
2	(41)		ALGER 1	ALG	03E09	36N40	D 9	200	25.1				A	158	2	0000—2400	18/TUR 24
3			ADELAIDE SA	AUS	138E31	35S06	A20	50	19.1				A	168	2	1900—1400	
4			ABTENAU	AUT	13E21	47N34	D 9	0.1	−10.0				A	15	6	0000—2400	
5			KOETSCHACH	AUT	13E00	46N41	D 9	0.1	−10.0				A	15	6	0000—2400	
6		S	LINZ KRONSTORF	AUT	14E27	48N10	D 9	200	23.6				A	137	4	0700—1500	2/0110/3103
7		S	LINZ KRONSTORF	AUT	14E27	48N10	D 9	200	23.6				A	137		0500—1700	2/0104/3009
8		S	LINZ KRONSTORF	AUT	14E27	48N10	D 9	50	17.6				A	137	4	1500—0700	2/0110/3103
9		S	LINZ KRONSTORF	AUT	14E27	48N10	D 9	50	17.6				A	137		1700—0500	2/0104/3009
10		S	MARIA PFARR	AUT	13E45	47N09	D 9	10	10.6				A	105	6	0700—1500	2/0110/3103
11		S	MARIA PFARR	AUT	13E45	47N09	D 9	10	10.6				A	105		0500—1700	2/0104/3009
12		S	MARIA PFARR	AUT	13E45	47N09	D 9	10	10.6				A	105	6	1500—0700	2/0110/3103
13		S	MARIA PFARR	AUT	13E45	47N09	D 9	10	10.6				A	105		1700—0500	2/0104/3009
14			NEUMARKT	AUT	14E25	47N04	D 9	0.1	−10.0				A	15	6	0000—2400	
15			RAURIS	AUT	13E00	47N14	D 9	0.1	−10.0				A	15	6	0000—2400	
16			S CRUZ	AZR	28W01	39N03	A20	1	0.4				A	60	4	0000—2400	
17			SG HANCHING	BRU	114E58	04N57	A20	10	10.0				A	24	4	2200—1500	
18		S	ALXA ZUOQI	CHN	105E41	38N50	A20	10	10.4				A	90	4	2000—1800	
19			DANDONG	CHN	124E22	40N07	A20	10	12.0	330			B		4	2000—1800	
20		S	GUYUAN	CHN	106E22	36N01	A20	20	13.4				A	90	4	2000—1800	
21		S	ZHONGWEI	CHN	105E11	37N30	A20	100	22.1				A	180	4	2000—1800	
22			MAKALE	ETH	39E28	13N31	C 9	100	22.1				A	170	3	0400—2300	
23			LAUTOKA	FJI	177E28	17S37	A20	10	10.4				A	45	7	1700—1200	
24			MAMOU	GUI	12W05	10N17	C 9	100	20.4				A	84	4	0000—2400	
25			HULSBERG	HOL	05E51	50N53	D 9	20	13.4				A	85	4	0000—2400	
26			DARBHANGA	IND	85E56	26N09	A20	300	26.9				A	170	3	0300—0900	25
27			INDORE	IND	75E50	22N44	A20	300	26.9				A	170	3	0300—0900	25
28			JAGDALPUR	IND	81E55	19N01	A20	300	26.9				A	170	3	0300—1000	25
29			RAMPUR	IND	79E04	28N48	C 9	300	26.9				A	170	3	0000—2400	
30			TINNEVELLY	IND	77E44	08N44	A20	300	26.9				A	170	3	0300—1000	25
31			MALANG	INS	112E45	07S59	A18	10	10.4				A	84	4	2200—1700	
32			TERNATE	INS	127E23	00N48	A18	10	10.4				A	84	6	2000—1500	
33			BUNDORAN	IRL	08W25	54N26	A20	100	23.4				A	210	4	0000—2400	
34			YASOJ	IRN	51E35	30N39	A20	20	13.4				A	83	3	0200—2100	
35			SENDAI	J	140E55	38N16	A15	20	13.6				A	138	4	0000—2400	
36			BUSAN	KOR	128E53	35N13	C10	250	26.1				A	150	5	0000—2400	
37			PANGYO	KRE	126E58	38N44	A16	1	0.4				A	50		2000—1800	
38			LANCERS GAP	LSO	27E32	29S19	A20	100	20.4				A	91	4	0400—2200	
39			OGBOMOSHO	NIG	04E13	08N07	C 9	10	10.4				A	92	4	0400—2300	
40			WELLINGTON	NZL	174E52	41S13	A20	10	10.4				A	50	4	0000—2400	
41			DUMAGUETE CITY	PHL	123E18	09N16	C 9	10	10.4				A	84	3	2100—1600	
42			BABANUSA	SDN	27E48	11N21	A20	100	23.4				A	215	4	0400—1500	24
43			MASSENYA	TCD	16E10	11N24	C 9	1	0.4				A			0400—2300	
44			DODOMA	TGK	35E30	06S10	C 9	100	20.4				A	88	4	0300—2100	
45			SARABURI	THA	100E49	14N14	A20	1000	30.6				A	122	2	2100—1100	
46			SARABURI	THA	100E49	14N14	A20	500	27.6				A	122	2	1100—2000	
47			ANTALYA	TUR	30E56	36N55	D 9	600	33.0	0			B		4	0200—2300	18/ALG UKR URS
48		S	DNEPROPETROVSK	UKR	35E04	48N28	A16	20	16.4				A	220	4	0000—2400	18/TUR
49		S	UJGOROD	UKR	22E20	48N38	A16	150	25.2				A	220	4	0000—2400	18/TUR
50		S	BAKU	URS	49E45	40N24	A16	30	18.2				A	220	4	0000—2400	18/TUR
51			TIUMEN	URS	65E30	57N02	A18	100	23.4				A	220	4	0000—2400	
52			USSURIISK	URS	132E15	44N00	A16	5	10.4				A	220	4	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	900		GURIAT	ARS	37E25 31N25	C 9	1000	36.0	328	20—280	20.0	B		4	1500—0300	24
2	(42)		UDHAILIYAH	ARS	49E42 25N09	A20	0.1	−10.0				A	15	4	0100—2400	24
3			ALICE SPR NT	AUS	133E52 23S46	A20	2	3.4				A	46	3	1900—1400	
4			BRIDGETOWN WA	AUS	116E10 34S03	A20	5	9.1				A	143	4	1900—1400	
5			DEVONPORT TAS	AUS	146E19 41S10	A20	5	7.4				A	56	3	1900—1400	
6			LISMORE NSW	AUS	153E21 28S49	A20	5	7.4				A	83	4	1900—1400	
7			MT TOMPRICE WA	AUS	117E46 22S43	A20	5	7.4				A	70	5	2100—1600	
8		S	GUIYANG	CHN	106E36 26N25	A20	100	22.1				A	180	5	2000—1800	
9		S	HAILAR	CHN	119E45 49N02	A20	50	17.4				A	90	4	2000—1800	
10		S	HUMA	CHN	126E36 51N35	A20	50	17.4				A	90	4	2000—1800	
11		S	MUDANJIANG	CHN	129E36 44N36	A20	10	10.4				A	90	4	2000—1800	
12		S	SHUANGYASHAN	CHN	131E05 46N32	A20	10	10.0	320	90—190	4.0	B		4	2000—1800	
13		S	SUIHUA	CHN	126E50 46N34	A20	50	17.4				A	90	4	2000—1800	
14		S	TONGREN 2	CHN	109E13 27N43	A20	50	17.4				A	90	5	2000—1800	
15		S	TONGZI	CHN	106E49 28N08	A20	10	10.4				A	90	5	2000—1800	
16		S	WEINING	CHN	104E17 26N52	A20	50	17.4				A	90	5	2000—1800	
17		S	XINGYI	CHN	104E52 25N07	A20	10	10.4				A	90	5	2000—1800	
18			BAFIA	CME	11E12 04N42	C 9	20	15.1				A	166	5	0500—2300	
19			YAOUNDE	CME	11E32 03N55	C 9	20	15.1				A	166	5	0500—2300	
20			ABENGOUROU	CTI	03W29 06N43	C 9	10	12.1				A		7	0600—2400	
21			SASSANDRA	CTI	06W04 04N57	C 9	1	0.4				A		7	0600—2400	
22			BISSAU	GNB	15W35 11N51	A20	5	7.4				A	83	3	0000—2400	
23			DIAPAGA	HVO	01E47 12N04	A20	10	10.4				A	80	4	0000—2400	
24			MILANO	I	09E12 45N20	D 9	2000	35.1	290	94—128	29.9	B		4	0000—2400	
25			CUDDAPAH	IND	78E49 14N29	A20	200	25.1				A	170	3	0300—1000	25
26			CUDDAPAH	IND	78E49 14N29	A20	100	22.1				A	170	3	1000—0300	
27			SILCHAR	IND	92E47 24N45	A20	300	26.9				A	170	4	0300—0900	25
28			DJAKARTA	INS	106E45 06S23	A18	10	10.4				A	83	5	2200—1700	
29			SAMARINDA	INS	117E09 00S30	A18	25	16.1				A	150	4	2100—1600	
30		S	AHWAZ	IRN	48E40 31N20	A20	10	10.4				A	80	2	0100—2200	
31		S	BANDARFARAHNAZ	IRN	49E58 37N25	A20	10	10.4				A	80	2	0100—2200	
32		S	ISFAHAN	IRN	51E38 32N37	A20	10	10.4				A	80	3	0100—2200	
33		S	KERMAN	IRN	57E05 30N21	A20	10	10.4				A	80	3	0100—2200	
34		S	KERMANSHAH	IRN	47E04 34N19	A20	10	10.4				A	80	3	0100—2200	
35		S	MESHED	IRN	59E33 36N15	A20	10	10.4				A	80	3	0100—2200	
36		S	TABRIZ	IRN	46E20 38N02	A20	10	10.4				A	80	3	0100—2200	
37		S	TEHERAN	IRN	51E27 35N41	A20	50	19.1				A	140	3	0100—2200	
38			HAKODATE	J	140E41 41N51	A15	5	8.0	45			B		5	0000—2400	
39		S	IZUMO	J	132E47 35N23	A15	0.1	−9.6				A	50	5	0000—2400	
40			KOCHI	J	133E35 33N33	A15	5	7.0	265			B		4	0000—2400	
41			MASUDA	J	131E50 34N41	A15	0.1	−9.6				A	65	5	0000—2400	
42		S	YONAGO	J	133E18 35N26	A15	5	10.0	280			B		5	0000—2400	
43			MERU	KEN	37E37 00N05	C 9	100	20.6				A	100	4	0000—2400	
44			SEOUL	KOR	126E46 37N38	C10	50	19.1				A	140	5	0000—2400	
45			KANGGYE	KRE	126E36 40N58	A16	2	3.4				A	50		2000—1800	
46			MACAU	MAC	113E33 22N12	A20	10	10.4				A	75	2	2200—1600	
47			BEIRA	MOZ	34E44 19S36	C10	10	10.4				A	66	4	0400—2200	
48			AKJOUJT	MTN	14W22 19N45	B20	20	13.4				A	83		0600—2400	24
49			FILINGUE	NGR	03E20 14N20	C 9	1	0.4				A	80	4	0000—2400	
50			SURKHET	NPL	81E38 28N36	A20	20	13.6				A	120	4	2200—1900	
51			DUNEDIN	NZL	170E35 45S53	A20	10	12.1				A	150	4	0000—2400	
52			KASHMOR	PAK	69E38 28N25	A20	2	3.4				A	83	4	0000—2000	
53			BATANGAS BAT	PHL	121E02 13N44	C 9	1	0.4				A	83	3	2100—1600	
54			DAVAO CITY	PHL	125E36 07N03	C 9	1	0.4				A	83	3	2100—1600	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	900		LAOAG CITY	PHL	120E35 18N11	C 9	1	0.4				A	83	3	2100—1600	
2	(42)		GOROKA	PNG	145E23 06S05	B10	2	3.4				A	60	5	2000—1400	
3		S	BRNO	TCH	16E38 49N11	C 9	30	15.2				A	60	5	0400—1700	7
4		S	KARLOVY VARY	TCH	12E52 50N15	C 9	25	14.4				A	60	5	0400—1700	7
5		S	MOR BUDEJOVICE	TCH	15E48 49N04	C 9	30	15.4				A	100	5	0400—1700	7
6		S	OLOMOUC	TCH	17E15 49N45	C 9	30	15.2				A	60	4	0400—1700	7
7		S	PLZEN	TCH	13E23 49N45	C 9	25	14.4				A	60	5	0400—1700	7
8			AIAGUZ	URS	79E59 47N50	A18	50	20.4				A	220	4	0000—2400	
9			IOCHKAR OLA	URS	47E50 56N39	C10	50	20.4				A	220	4	0000—2400	
10			KULIAB	URS	69E46 37N55	A18	50	20.4				A	220	4	0000—2400	
11			CAZMA	YUG	16E38 45N45	D 9	0.1	−9.6				A	50	3	0800—1500	7
12			SRBAC	YUG	17E32 45N07	D 9	0.1	−9.6				A	50	3	0800—1500	7

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	909		MAZAR I SHARIF	AFG	67E08 36N40	C 9	20	13.4				A	60	4	0100—2000	
2	(43)		UIGE	AGL	15E08 07S40	A20	5	7.4				A	83	3	0000—2400	
3			TAMANRASSET	ALG	05E30 22N50	D 9	100	22.1				A	140	5	0000—2400	24
4			ANGRA HEROISMO	AZR	27W11 38N42	A20	10	10.4				A	60	4	0000—2400	
5		S	FUHAI	CHN	87E45 47N00	A20	1	0.4				A	90	4	2000—1800	
6		S	FUYUN	CHN	89E33 47N00	A20	10	10.4				A	90	4	2000—1800	
7		S	HOTAN	CHN	80E02 37N00	A20	10	10.4				A	90	4	2000—1800	
8		S	KASHI	CHN	76E00 39N25	A20	10	11.0	100	210—290	7.0	B		4	2000—1800	
9		S	RUOQIANG	CHN	88E10 39N00	A20	10	10.4				A	90	4	2000—1800	
10		S	TACHENG	CHN	83E05 46N45	A20	10	10.4				A	90	4	2000—1800	
11			TIANJIN	CHN	117E09 39N09	A20	50	17.4				A	90	4	2000—1800	
12		S	TURPAN	CHN	89E02 42N53	A20	10	10.4				A	90	4	2000—1800	
13			WENCHENG	CHN	120E06 27N47	A20	100	22.1				A	180	4	2000—1800	
14		S	XINHE	CHN	82E40 41N25	A20	10	10.4				A	90	4	2000—1800	
15			YICHUN 2	CHN	128E45 47N40	A20	5	7.4				A	90	4	2000—1800	
16		S	YINING SHI	CHN	81E28 43N55	A20	10	10.4				A	90	4	2000—1800	
17		S	YIWU	CHN	94E40 43N20	A20	1	0.4				A	90	4	2000—1800	
18			TRINCOMALEE	CLN	81E07 08N30	C10	20	13.6				A	102	5	0000—1800	
19			DILLBERG	D	11E23 49N20	D 9	200	23.6				A	100	4	0600—1800	15
20			DILLBERG	D	11E23 49N20	D 9	200	32.0	50	100—120	8.0	B		4	1800—0600	
21			DILLBERG	D	11E23 49N20	D 9	200	32.0		290—320	5.0	B				
22			JYVASKYLA	FNL	25E46 62N17	D 9	100	23.4				A	200	5	0000—2400	
23		S	BROOKMANS PARK	G	00W11 51N44	C10	140	23.6				A	152	3	0000—2400	
24		S	CLEVEDON	G	02W52 51N25	C10	50	19.5	260			B		3	0000—2400	
25		S	EXETER	G	03W31 50N41	A20	1	0.0				A	37	4	0000—2400	
26		S	FAREHAM	G	01W13 50N51	C10	1	0.0				A	38	4	0000—2400	
27		S	FERN BARROW	G	01W54 50N44	C10	1	0.0				A	45	4	0000—2400	
28		S	LISNAGARVEY	G	06W04 54N30	C10	10	10.0				A	46	4	0000—2400	
29		S	LONDONDERRY	G	07W22 55N00	C10	1	0.0				A	46	5	0000—2400	
30		S	MOORSIDE EDGE	G	01W54 53N38	C10	150	25.0	30			B		4	0000—2400	
31		S	REDRUTH	G	05W13 50N13	C10	2	3.0				A	38	5	0000—2400	
32			ROHAIS	G	02W34 49N28	A10	0.5	−3.0				A	45	4	0000—2400	
33		S	TORQUAY	G	03W33 50N29	C10	1	0.0				A	15	4	0000—2400	
34			TRINITY	G	02W06 49N14	A10	1	0.0				A	45	4	0000—2400	
35		S	WESTERGLEN	G	03W50 55N58	C10	50	19.0				A	152	4	0000—2400	
36		S	WHITEHAVEN	G	03W35 54N32	C10	1	0.0				A	46	4	0000—2400	
37			RADIO SYD	GMB	16W36 13N28	C 9	5	7.4				A	83	4	0600—0200	
38			DIEBOUGOU	HVO	03W09 11N10	A20	10	10.4				A	82	4	0000—2400	
39			CHHINDWARA	IND	78E55 22N05	A20	300	26.9				A	165	4	0300—0900	25
40			GORAKHPUR	IND	83E28 26N52	A20	100	22.1				A	170	3	0000—2400	
41			RATNAGIRI	IND	73E22 17N00	A20	100	22.1				A	170	4	0300—1000	25
42			SORONG	INS	131E17 00S50	A18	10	10.4				A	82	5	2000—1500	
43			MIZPE RAMON	ISR	34E48 30N46	D 9	10	12.1				A		3	0000—2400	33
44			NAGOYA	J	136E58 35N03	A15	10	10.4				A	89	4	0000—2400	
45			CHINJU	KOR	128E06 35N09	C10	10	10.6				A	120	4	0000—2400	
46			SUNCHON	KRE	125E46 39N25	A16	1	0.0				A	30		2000—1800	
47		S	GIAGHBOUB	LBY	24E31 29N45	D 9	20	15.1				A	165	5	0400—2400	24
48		S	KUFRA	LBY	23E18 24N11	D 9	10	12.1				A	165	5	0400—2400	24
49			SIBU	MLA	111E49 02N18	A20	20	13.6				A	135	5	2200—1600	
50			SIDI BENNOUR	MRC	08W17 32N44	A12	100	20.6				A	100	6	0600—2400	24
51			SIMLEMBA	MWI	33E40 12S45	A20	20	13.4				A	92	3	0200—2300	
52			LOKOJA	NIG	06E45 07N49	C 9	20	13.6				A	100	4	0500—2300	
53			ILIGAN CITY	PHL	124E19 08N15	C 9	1	0.4				A	75	3	2100—1600	
54			TAWI TAWI SULU	PHL	119E46 05N01	C 9	5	7.4				A	82	3	2100—1600	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	909	S	CLUJ	ROU	23E37 46N47	A20	50	19.1				A	155	5	0000—2400	
2	(43)	S	RESITA	ROU	21E55 45N18	A20	15	12.2				A	80	6	0000—2400	
3		S	TOMIS	ROU	28E36 44N07	A20	25	16.1				A	155	4	0000—2400	
4			YAMBIO	SDN	28E24 04N32	A20	50	21.0	235			B		3	0400—1600	24
5			HARAZE MANGUEG	TCD	21E19 10N31	C 9	1	0.4				A			0400—2300	
6			SURIN	THA	103E32 14N57	A20	50	17.6				A	110	3	0000—2400	
7			KAMPALA	UGA	32E36 00N20	C 9	20	15.1				A		4	0300—2100	
8			IMAN	URS	133E43 45N56	A18	50	21.0	60	220—260	11.0	B		4	0000—2400	
9		S	PT VILA	VUT	168E18 17S45	A20	20	13.4				A	50	1	0000—2400	
10		S	SANTO 1	VUT	167E15 15S30	A20	20	13.4				A	50	1	0000—2400	
11			TAIZ 2	YEM	44E05 13N32	C 9	500	30.0	120	250—330	16.0	B		3	0300—2200	24
12			SOLWEZI	ZMB	26E25 12S10	A20	10	12.1				A	168	4	0200—2100	

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)		Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation; Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	918		TABOUK	ARS	36E30	28N25	C 9	20	13.6				A	120	4	0400—1400	24
2	(44)		CHARLEVIL QLD	AUS	146E13	26S23	A20	5					B		2	1900—1400	
3			COOMA NSW	AUS	149E09	36S14	A20	5	7.4				A	81	5	1900—1400	
4			NARROGIN WA	AUS	117E12	32S57	A20	5	7.4				A	82	3	1900—1400	
5		S	BIN XIAN	CHN	118E02	37N22	A20	10	10.4				A	90	4	2000—1800	
6		S	JINING SHI	CHN	116E35	35N28	A20	50	17.4				A	90	4	2000—1800	
7		S	LINYI	CHN	118E20	35N04	A20	20	13.4				A	90	4	2000—1800	
8			NANNING	CHN	108E18	22N48	A20	0.5	−3.0				A	60	4	2000—1800	
9		S	WEIFANG	CHN	119E06	36N43	A20	100	22.1				A	180	4	2000—1800	
10		S	WEIHAI	CHN	122E07	37N31	A20	10	10.4				A	90	4	2000—1800	
11			ZHANGJIAKOU	CHN	114E51	40N49	A20	5	7.4				A	90	4	2000—1800	
12			DIYAGAMA	CLN	79E58	06N50	C10	50	17.4				A	60	5	0000—1800	
13			DUEKOUE	CTI	07W21	06N43	C 9	1	0.4				A		7	0600—2400	
14			PAPHOS	CYP	32E22	34N52	C 9	50	19.1				A	176	5	0530—1330	2/0111/2802
15			PAPHOS	CYP	32E22	34N52	C 9	50	19.1				A	176		0300—1600	2/0103/3110
16			PAPHOS	CYP	32E22	34N52	C 9	2	5.1				A	176	5	1330—0530	2/0111/2802
17			PAPHOS	CYP	32E22	34N52	C 9	2	5.1				A	176		1600—0300	2/0103/3110
18			MADRID	E	03W40	40N26	D 9	20	13.4				A	80	4	0000—2400	
19		S	EL MINYA	EGY	30E33	28N07	D 9	10	10.6				A	100	3	0000—2400	24
20		S	IDFU	EGY	32E49	25N00	D 9	10	10.6				A	100	3	0000—2400	24
21		S	SOHAG	EGY	31E43	26N27	D 9	10	10.6				A	100	3	0000—2400	24
22			SODDU	ETH	37E45	06N52	C 9	10	12.1				A	160	3	0400—2100	
23			BANGALORE	IND	77E38	12N58	A20	300	28.2				A	215	3	0300—1000	25
24			DIBRUGARH	IND	94E58	27N29	A20	300	26.9				A	165	3	0300—0900	25
25			SURAT	IND	72E52	21N12	A20	300	26.9				A	165	3	0300—0900	25
26			SURATGARH	IND	73E54	29N24	A20	300	27.0	35	145—175	20.0	B		3	0000—2400	
27			SURABAJA	INS	112E45	07S14	A18	10	10.4				A	82	4	2200—1700	
28			JIROFT	IRN	57E45	28N40	A20	20	13.4				A	82	3	0200—2100	
29			IWAKUNI	J	132E13	34N08	A15	0.1	−9.6				A	52	5	0000—2400	
30			KUSHIMA	J	131E14	31N28	A15	0.1	−9.6				A	67	5	0000—2400	
31			KUSHIRO	J	144E25	42N59	A15	1	0.4				A	50	4	0000—2400	
32			NOBEOKA	J	131E41	32N33	A15	1	0.4				A	67	5	0000—2400	
33			SHIMONOSEKI	J	130E56	33N58	A15	0.1	−9.6				A	52	5	0000—2400	
34			YAMAGATA	J	140E21	38N16	A15	5	8.0	10			B		5	0000—2400	
35			NAKURU	KEN	36E05	00S07	C 9	20	13.6				A	100	4	0000—2400	
36			YEONCHEON	KOR	127E04	38N06	C10	50	19.1				A	138	5	2100—0800	7
37			YEONCHEON	KOR	127E04	38N06	C10	10	12.1				A	138	5	0800—2100	
38			SANTANA 2	MDR	16W54	32N47	A20	1	0.4				A	60	4	0000—2400	
39			KUALA LIPIS	MLA	102E00	04N03	A20	20	15.1				A	150	5	0000—2400	
40			LOUREN MARQUES	MOZ	32E36	25S58	C10	100	22.1				A	160	4	0400—2200	
41			TETOUAN	MRC	05W23	35N36	A12	5	7.4				A	56	5	0500—2400	24
42			BOGHE	MTN	14W14	16N36	B20	20	13.4				A	82		0600—2400	24
43			LAGOS IKORODU	NIG	03E34	06N34	C 9	20	13.4				A	70	4	0500—2300	
44			MAKURDI	NIG	08E32	07N45	C 9	50	17.6				A	120	4	0500—2300	
45		S	CHATHAM IS	NZL	176W38	44S05	A20	5	7.4				A	50	4	0000—2400	
46		S	KUMARA	NZL	171E09	42S34	A20	10	12.1				A	150	6	0000—2400	
47			MALOLOS BUL	PHL	120E49	14N51	D 9	50	20.0	155	65—245	3.0	B		3	2100—1600	
48			MASSAKORY	TCD	15E44	13N00	C 9	1	0.4				A			0400—2300	
49			CHANDHABURI	THA	102E07	12N36	A20	1	0.4				A	85	3	0000—2400	
50			CHIANG MAI	THA	98E58	18N48	A20	10	10.4				A	60	5	0000—2400	
51			MUBENDE	UGA	31E20	00N30	C 9	10	10.4				A	68	4	0300—2100	
52			CHADRINSK	URS	63E37	56N00	A18	5	10.4				A	220	4	0000—2400	
53			MAKHATCHKALA	URS	47E30	42N59	C10	50	20.4				A	220	4	0000—2400	
54			MEZEN	URS	44E20	65N48	A16	100	20.4				A	85	4	0000—2400	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	918	SRETENSK	URS	117E37 52N17	A18	50	21.0	0	160—200	11.0	B		5	0000—2400	
2	(44)	LJUBLJANA	YUG	14E35 46N08	D 9	600	29.9				A	136	5	0000—2400	
3		MANSA	ZMB	28E53 11S10	A20	10	12.1				A	167	4	0200—2100	

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)		Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	927		LIBRAZHD	ALB	20E16	41N10	A20	1	0.4				A	81	6	0400—2300	
2	(45)		BENI ABBES	ALG	02W08	30N08	A20	4	6.4				A		5	0600—2400	24
3			GURIAT	ARS	37E25	31N25	C 9	500	33.0	300	80—170	17.0	B		4	0400—1400	24
4		S	BILOELA QLD	AUS	150E30	24S21	A20	0.1	−10.0				A	40	4	1900—1400	
5		S	GLADSTONE QLD	AUS	151E14	23S51	A20	5					B		4	1900—1400	
6			MELBOURNE VIC	AUS	145E06	37S44	A20	5	9.1				A	142	2	0000—2400	
7			PERTH WA	AUS	115E53	32S01	A20	0.5	−3.0				A	46	4	2100—1600	
8			BRUXELLES WAVR	BEL	04E35	50N45	D 9	600	29.9				A	165	4	0000—2400	
9		S	ANSHUN SHI	CHN	105E55	26N15	A20	10	10.4				A	90	5	2000—1800	
10			BEIJING	CHN	116E27	39N57	A20	20	13.4				A	90	4	2000—1800	
11		S	BIJIE	CHN	105E16	27N18	A20	10	10.4				A	90	5	2000—1800	
12		S	DEJIANG	CHN	108E08	28N10	A20	50	17.4				A	90	5	2000—1800	
13			JILIN SHI	CHN	126E30	43N48	A20	10	10.4				A	90	4	2000—1800	
14		S	LUODIAN	CHN	106E40	25N29	A20	50	17.4				A	90	5	2000—1800	
15		S	QINGLONG	CHN	105E13	25N51	A20	10	10.4				A	90	5	2000—1800	
16		S	RONGJIANG	CHN	108E31	25N55	A20	10	10.4				A	90	5	2000—1800	
17		S	SHIBING	CHN	108E07	27N03	A20	10	10.4				A	90	5	2000—1800	
18		S	ZUNYI SHI	CHN	106E50	27N32	A20	10	10.4				A	90	5	2000—1800	
19			LOUM	CME	09E47	04N42	C 9	20	15.1				A	161	5	0500—2300	18/NGR
20			NKONGSAMBA	CME	09E54	04N57	C 9	30	16.9				A	161	5	0500—2300	18/NGR
21			DEBRA MA	ETH	37E44	10N20	C 9	10	12.1				A	160	3	0400—1500	
22			SIGATOKA	FJI	177E31	18S09	A20	2.5	4.0				A	30	3	1700—1200	
23			BISSAU	GNB	15W35	11N51	A20	0.5	−2.6				A	80	3	0000—2400	
24			ZAKYNTHOS	GRC	20E53	37N45	C 9	50	19.0	115	270—310	7.0	B		3	0400—2400	
25			KEROUANE	GUI	09W04	09N16	C 9	100	20.4				A	81	4	0000—2400	
26			ALMORA	IND	79E38	29N35	A20	300	26.9				A	165	4	0300—0900	25
27			JABALPUR	IND	79E59	23N10	A20	300	26.9				A	165	3	0300—0900	25
28			TURA	IND	90E12	25N36	A20	300	26.9				A	160	3	0300—0900	25
29			VIZAGAPATAM	IND	83E20	17N42	A20	200	25.0	185	285—335	17.0	B		4	0000—2400	
30			PAKANBARU	INS	101E30	00N33	A18	50	19.1				A	162	4	2200—1700	
31			BOJNURD	IRN	57E18	37N25	A20	20	13.4				A	81	3	0200—2100	
32			TIRAT ZEVI	ISR	35E30	32N29	A16	10	12.1				A		3	0000—2400	17/TUR 33
33			FUKUI	J	136E14	36N02	A15	5	9.0	230			B		5	0000—2400	
34			KOFU	J	138E32	35N39	A15	5	9.0	100			B		5	0000—2400	
35			TSUYAMA	J	134E01	35N03	A15	1	0.4				A	67	5	0000—2400	
36			WAKKANAI	J	141E43	45N23	A15	1	0.4				A	67	4	0000—2400	
37			MOMBASA	KEN	39E40	04S05	C 9	100	23.0				A	100	4	0000—2400	18/SDN
38			BUYEO	KOR	126E54	36N16	C10	10	10.4				A	60	4	0000—2400	
39			HADONG	KOR	127E45	35N03	C10	1	0.4				A	60	6	0000—2400	
40			HONGCHEON	KOR	127E54	37N41	C10	1	0.6				A	100	6	0000—2400	
41			HWANGJU	KRE	125E47	38N41	A16	50	20.0				B		6	2000—1800	
42			TAWAU	MLA	117E55	04N16	A20	10	12.1				A	150	5	0000—2400	
43			AGADES	NGR	08E00	17N00	C 9	10	10.4				A	80	4	0000—2400	18/CME
44			NEW BUSSA	NIG	04E30	10N14	C 9	10	10.4				A	80	4	0500—2300	
45			PALMERSTON NO	NZL	175E34	40S21	A20	2	3.4				A	55	4	0000—2400	
46			KHAIRPUR	PAK	68E20	27N15	A20	100	20.4				A	81	3	0000—2000	
47			CALBAYOG SAMAR	PHL	124E35	12N04	C 9	1	0.4				A	81	3	2100—1600	
48			ZAMBOANGA CITY	PHL	122E03	06N54	C 9	5	7.4				A	81	3	2100—1600	
49			MALAKAL	SDN	31E40	09N32	A20	250	27.4				A	200	3	0400—2200	18/KEN 24
50			BANGKOK	THA	100E33	13N47	A20	10	10.0				A	30	2	0000—2400	
51		S	CANAKKALE	TUR	26E25	40N09	D 9	10	10.4				A	68	4	0200—2300	
52		S	IZMIR	TUR	27E15	38N15	D 9	200	28.0	75	250—260	15.0	B		4	0200—2300	17/ISR
53		S	MUGLA	TUR	28E22	37N13	D 9	1	0.4				A	68	4	0200—2300	
54			NEBIT DAG	URS	54E05	39N20	A18	50	20.4				A	220	4	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	927	TAICHET	URS	98E01 55N57	A16	50	17.4				A	90	4	0000—2400	
2	(45)	VLADIMIR	URS	40E23 56N08	C10	30	18.2				A	220	4	0000—2400	
3		LIVINGSTONE	ZMB	25E50 17S50	A20	10	12.1				A	162	3	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	936		BAGHLAN	AFG	68E50 36N12	C 9	10	10.4				A	70	4	0100—2000	
2	(46)		BERAT	ALB	19E58 40N41	A20	1	0.4				A	80	5	0400—2300	
3			NARIYA PMSTN2	ARS	48E28 27N25	A20	0.1	−10.0				A	15	4	0100—2400	24
4			AYR QLD	AUS	147E15 19S30	A20	5					B		3	1900—1400	
5		S	HOBART TAS	AUS	147E30 42S55	A20	10					B		5	1900—1400	
6		S	KELSO TAS	AUS	146E47 41S06	A20	10	12.1				A		4	1900—1400	
7			PARAKOU	BEN	02E38 09N20	C10	100	20.4				A	80	4	0500—2400	
8			SIBUT	CAF	19E06 05N46	C 9	10	10.4				A	56	5	0400—2300	
9		S	ANQING	CHN	117E00 30N30	A20	20	13.6				A	90	4	2000—1800	
10		S	BUSHENG	CHN	81E09 30N17	A20	10	10.6				A	90	5	2000—1800	
11		S	GEGYA	CHN	80E58 32N30	A20	10	10.4				A	70	5	2000—1800	
12		S	HEFEI	CHN	117E19 31N46	A20	100	23.4				A	180	4	2000—1800	
13		S	HUOQIU	CHN	116E15 32N20	A20	10	10.6				A	90	4	2000—1800	
14		S	LHASA	CHN	90E59 29N30	A20	100	23.4				A	180	5	2000—1800	
15		S	NINGGUO	CHN	118E58 30N38	A20	10	10.6				A	90	4	2000—1800	
16		S	RUTO	CHN	79E44 33N25	A20	10	10.6				A	90	5	2000—1800	
17		S	SU XIAN	CHN	116E58 33N39	A20	50	17.0	260	30—130	11.0	B		4	2000—1800	
18		S	BREMEN	D	08E53 53N07	D 9	100	24.0	280	80—130	14.0	B		4	0000—2400	
19		S	BREMERHAVEN	D	08E37 53N32	D 9	5	7.4				A	56	4	1800—0600	
20			CAIRO	EGY	31E14 30N01	D 9	100	22.1				A	160	3	0000—2400	24
21		S	CUNEO	I	07E32 44N22	D 9	10	10.4				A	80	5	0000—2400	
22		S	OLBIA	I	09E29 40N54	D 9	10	10.4				A	80	4	0000—2400	
23		S	ORISTANO	I	08E36 39N53	D 9	5	7.4				A	80	4	0000—2400	
24		S	TRAPANI	I	12E34 37N55	D 9	5	7.6				A	110	5	0000—2400	
25		S	VENEZIA	I	12E18 45N29	D 9	25	14.6				A	118	3	0000—2400	
26			DHARWAR	IND	74E59 15N27	A20	300	26.9				A	165	3	0300—1000	25
27			TIRUCHIRAPALLI	IND	78E46 10N50	A20	300	26.9				A	165	3	0300—1000	25
28			TIRUCHIRAPALLI	IND	78E46 10N50	A20	100	22.1				A	165	3	1000—0300	
29			UDAIPUR	IND	73E47 24N30	A20	300	26.9				A	165	4	0300—0900	25
30			CLONBUR	IRL	09W22 53N31	A20	0.1	−9.6				A	50	5	0000—2400	
31			REZAIEH	IRN	45E05 37N32	A20	10	10.4				A	70	3	0100—2200	
32			AKITA	J	140E06 39N42	A15	5	7.4				A	78	4	0000—2400	
33			MIYAZAKI	J	131E26 31N56	A15	5	7.6				A	102	4	0000—2400	
34			KWANGJU	KOR	126E49 35N12	C10	20	13.6				A	130	4	0000—2400	
35			KYONGWON	KRE	130E10 42N50	A16	1	0.4				A	50		2000—1800	
36			BEIRA	MOZ	34E44 19S36	C10	250	28.0	220			B		4	0400—2200	
37			SAIPAN	MRA	145E49 15N17	C10	10	10.6				A	97	3	0000—2400	
38			AGADIR	MRC	09W31 30N20	C 9	600	28.8	190	240—320	19.8	B		4	0500—0300	24
39			KAFANCHAN	NIG	08E18 09N36	C 9	10	10.6				A	100	4	0500—2300	
40			S ARNAUD	NZL	172E49 41S49	A20	2	3.4				A	50	6	0000—2400	
41			MIR PURE	PAK	73E48 33N10	A20	5	7.6				A	121	4	0000—2000	
42			BINALBAGAN NEG	PHL	122E52 10N12	C 9	1	0.4				A	80	3	2100—1600	
43			DAVAO CITY	PHL	125E34 07N04	C 9	10	10.4				A	80	3	2100—1600	
44			TARLAC TARLAC	PHL	120E35 15N29	C 9	1	0.4				A	80	3	2100—1600	
45			AL KHAISAH	QAT	51E25 25N24	C 9	100	20.6				A	100	5	0300—2100	24
46			MOYAMBA	SRL	12W35 08N15	C 9	20	13.0				A	40	2	0500—2400	
47			NAKHON SAWAN	THA	100E07 15N43	A20	50	22.0	340			B		2	0000—2400	
48			PATTANI	THA	101E15 06N50	A20	1.5	2.2				A	45	3	0000—2400	
49			YUMBE	UGA	31E25 03N30	C 9	10	10.4				A	80	4	0300—2100	
50			LVOV	UKR	23E59 49N50	A16	500	32.0	10	150—250	21.0	B		4	0000—2400	
51			AMGA	URS	132E00 61N01	A16	50	20.4				A	220	5	0000—2400	
52		S	ENGELS	URS	46E05 51N27	A16	100	23.4				A	220	4	0000—2400	
53		S	FT CHEVTCHENKO	URS	50E18 44N30	A18	150	26.7	25	180—240	6.7	B		4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
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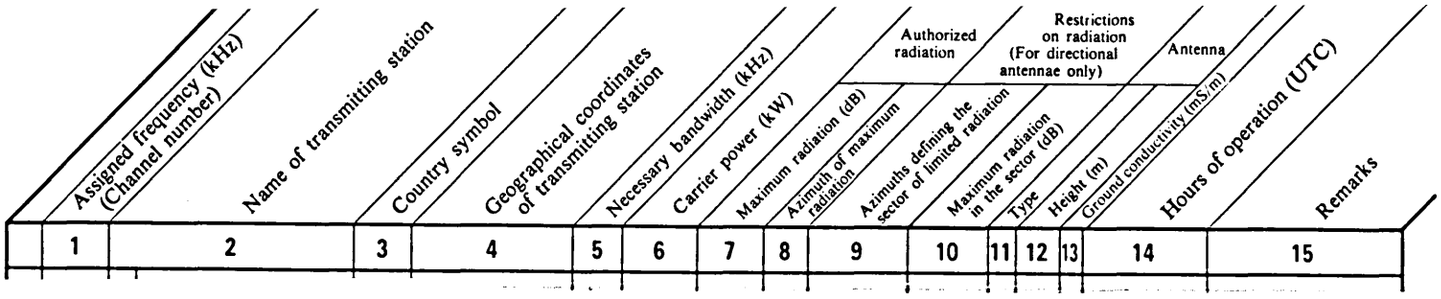
1	936	S	KEMEROVO	URS	86E00 55N22	A16	50	20.4				A	220	4	0000—2400	
2	(46)	S	KRASNOIARSK	URS	92E54 56N01	A18	50	20.4				A	220	4	0000—2400	
3			DJAKOVICA	YUG	20E26 42N22	D 9	10	10.0				A	40	4	0800—1500	
4			DJAKOVICA	YUG	20E26 42N22	D 9	2	3.0				A	40	4	1500—0800	
5			DONJI MIHOLJAC	YUG	18E11 45N46	D 9	0.1	−9.6				A	50	3	0800—1500	7
6			GEVGELIJA	YUG	22E31 41N09	D 9	10	10.4				A	60	3	0800—1500	
7			GEVGELIJA	YUG	22E31 41N09	D 9	2	3.4				A	60	3	1500—0800	
8			RUMA	YUG	19E55 45N00	D 9	1	0.6				A	45	3	0800—1500	7
9			KISANGANI	ZAI	25E11 00N03	C 9	10	12.1				A	135	6	0000—2400	
10			KABWE	ZMB	28E30 14S22	A20	2	5.1				A	160	4	0200—2100	



	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	945		FARAH	AFG	62E08	32N23	C 9	10	10.4				A	60	4	0100—2000	
2	(47)		LUANDA	AGL	13E14	08S48	C10	1	0.4				A	65	3	0500—2400	
3			GURIAT	ARS	37E25	31N25	C 9	1000	36.0	270	10—170	15.0	B		4	0000—2400	24
4			BENDIGO VIC	AUS	144E14	36S42	A20	5	7.4				A	78	2	1900—1400	
5			CHARLEVIL QLD	AUS	146E00	27S00	A20	5	7.4				A		2	1900—1400	
6			MEEKATHARRA WA	AUS	118E30	27S00	A20	10	12.1				A		4	2100—1600	
7		S	AIHUI	CHN	127E20	50N18	A20	20	13.6				A	90	4	2000—1800	
8		S	ANHUA	CHN	111E13	28N22	A20	10	10.6				A	90	4	2000—1800	
9		S	ANSHAN	CHN	122E58	41N07	A20	10	10.6				A	90	4	2000—1800	
10		S	ANXI	CHN	95E32	40N30	A20	5	7.6				A	90	4	2000—1800	
11		S	BEIAN	CHN	126E40	48N18	A20	1	0.6				A	90	4	2000—1800	
12		S	BO XIAN	CHN	115E46	33N53	A20	5	7.6				A	90	4	2000—1800	
13		S	CHANGSHA SHI	CHN	112E45	28N09	A20	50	17.6				A	90	4	2000—1800	
14		S	CHU XIAN	CHN	118E18	32N19	A20	10	10.6				A	90	4	2000—1800	
15		S	CHUXIONG	CHN	101E28	25N02	A20	20	13.6				A	90	5	2000—1800	
16		S	DEZHOU	CHN	116E17	37N27	A20	20	13.6				A	90	4	2000—1800	
17		S	ERGUNE ZUOQI	CHN	121E30	50N50	A20	10	10.6				A	90	4	2000—1800	
18		S	FUSHUN SHI	CHN	123E53	41N51	A20	5	7.6				A	90	4	2000—1800	
19		S	FUXIN SHI	CHN	121E38	42N02	A20	20	13.6				A	90	4	2000—1800	
20		S	HABAHE	CHN	87E03	48N04	A20	10	10.6				A	90	4	2000—1800	
21		S	HARBIN	CHN	126E52	45N49	A20	20	13.6				A	90	4	2000—1800	
22		S	HUAINAN	CHN	117E00	32N41	A20	5	7.6				A	90	4	2000—1800	
23		S	JIAMUSI	CHN	130E30	46N40	A20	20	13.6				A	90	4	2000—1800	
24		S	JIANCHANG	CHN	119E48	40N49	A20	20	13.6				A	90	4	2000—1800	
25		S	JIAYUGUAN	CHN	98E12	39N50	A20	5	7.6				A	90	4	2000—1800	
26		S	JINGDONG	CHN	100E45	24N24	A20	5	7.6				A	90	5	2000—1800	
27		S	JINGSHAN	CHN	113E06	31N02	A20	20	13.6				A	90	4	2000—1800	
28		S	JIXI	CHN	130E58	45N18	A20	20	13.6				A	90	4	2000—1800	
29		S	KUNMING	CHN	102E50	25N10	A20	50	17.6				A	90	5	2000—1800	
30		S	LANZHOU	CHN	103E50	36N02	A20	20	13.6				A	90	4	2000—1800	
31		S	LEIYANG	CHN	112E51	26N25	A20	10	10.6				A	90	4	2000—1800	
32		S	LIAOCHENG	CHN	115E58	36N26	A20	10	10.6				A	90	4	2000—1800	
33		S	LINTAN	CHN	103E21	34N42	A20	5	7.6				A	90	4	2000—1800	
34		S	MANZHOULI	CHN	117E30	49N28	A20	20	13.6				A	90	4	2000—1800	
35		S	MINQIN	CHN	102E58	38N36	A20	20	13.6				A	90	4	2000—1800	
36		S	MOHE	CHN	122E10	53N21	A20	20	13.6				A	90	4	2000—1800	
37		S	NINGYUAN	CHN	111E59	25N35	A20	10	10.6				A	90	4	2000—1800	
38		S	ONGNIUD QI	CHN	118E54	42N55	A20	20	13.6				A	90	4	2000—1800	
39		S	PUER	CHN	101E02	22N57	A20	20	13.6				A	90	5	2000—1800	
40		S	QIANYANG	CHN	110E09	27N20	A20	10	10.6				A	90	4	2000—1800	
41		S	QIQIHAR	CHN	123E58	47N18	A20	10	10.6				A	90	4	2000—1800	
42		S	RAOHE	CHN	134E00	46N40	A20	20	13.6				A	90	4	2000—1800	
43		S	RUSHAN	CHN	121E29	36N53	A20	20	13.6				A	90	4	2000—1800	
44		S	SHAN XIAN	CHN	116E05	34N48	A20	5	7.6				A	90	4	2000—1800	
45		S	TAXKORGAN	CHN	75E08	37N42	A20	10	10.6				A	90	4	2000—1800	
46		S	TENGCHONG	CHN	98E20	25N00	A20	20	13.6				A	90	5	2000—1800	
47		S	TIANSHUI SHI	CHN	105E30	34N30	A20	10	10.6				A	90	4	2000—1800	
48		S	TONGLING	CHN	117E47	30N57	A20	5	7.6				A	90	4	2000—1800	
49		S	URUMQI SHI	CHN	87E30	43N35	A20	100	22.0	140	290— 10	16.0	B		4	2000—1800	
50		S	WEIXI	CHN	99E12	27N10	A20	10	10.6				A	90	5	2000—1800	
51		S	WENSHAN	CHN	104E15	23N22	A20	5	7.6				A	90	5	2000—1800	
52		S	WUFENG	CHN	110E40	30N12	A20	25	14.6				A	90	4	2000—1800	
53		S	XIANNING	CHN	114E17	29N52	A20	10	10.6				A	90	4	2000—1800	
54		S	XIAOYI	CHN	111E48	37N07	A20	10	10.6				A	90	4	2000—1800	

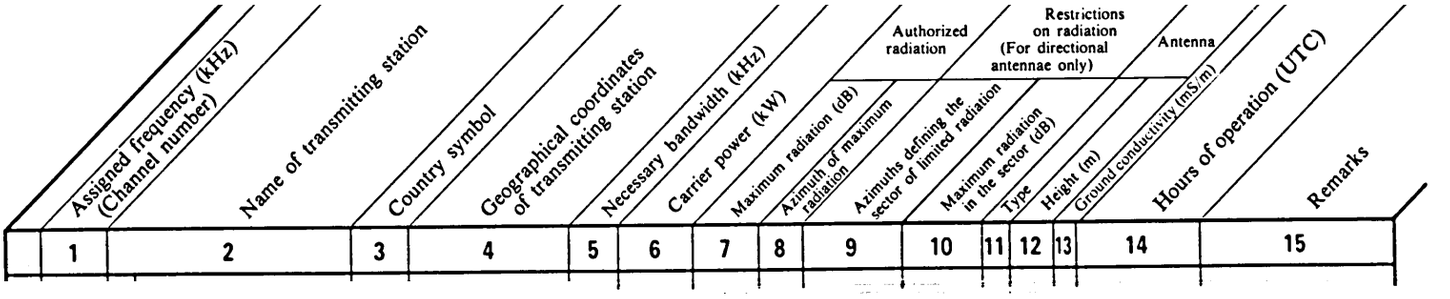
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	945	S	XIN XIAN	CHN	112E40 38N25	A20	10	10.6				A	90	4	2000—1800	
2	(47)	S	YANGCHENG	CHN	112E25 35N29	A20	10	10.6				A	90	4	2000—1800	
3		S	YONGSHUN	CHN	109E51 29N00	A20	10	10.6				A	90	4	2000—1800	
4		S	YUNLONG	CHN	99E19 25N56	A20	5	7.6				A	90	5	2000—1800	
5		S	ZHONGDIAN	CHN	99E37 27N45	A20	5	7.6				A	90	5	2000—1800	
6		S	ZHUANGHE	CHN	123E01 39N41	A20	10	10.6				A	90	4	2000—1800	
7		S	ZIBO	CHN	118E03 36N48	A20	5	7.6				A	90	4	2000—1800	
8		S	ZUOQUAN	CHN	113E22 37N05	A20	10	10.6				A	90	4	2000—1800	
9			GALLE	CLN	80E12 06N05	A10	10	10.4				A	50	5	0000—1800	
10			MINDELO	CPV	24W59 16N53	A18	10	10.0				A	40	6	1900—2400	
11			ADIUGRI	ETH	38E49 14N54	C 9	100	22.1				A	170	3	0400—2100	
12			TOULOUSE	F	01E20 43N21	D 9	300	26.9				A	132	3	0000—2400	
13			MESSOLGION	GRC	21E33 38N22	C 9	10	10.4				A	65	4	0400—2400	
14			AGARTALA	IND	91E23 23N50	A20	300	26.9				A	160	3	0300—0900	25
15			AURANGABAD	IND	75E18 19N54	A20	300	26.9				A	160	3	0300—1000	25
16			KAVARATHY I	IND	72E42 10N36	A20	300	26.9				A	160	4	0300—1000	25
17			SAMBALPUR	IND	84E01 21N28	A20	100	22.1				A	160	3	0000—2400	
18			MARIVAN	IRN	46E10 35N33	A20	20	13.4				A	79	3	0200—2100	
19			FUKUE	J	128E51 32N42	A15	1	0.4				A	50	5	0000—2400	
20			HIKONE	J	136E10 35N15	A15	1	0.6				A	108	5	0000—2400	
21			MURORAN	J	140E59 42N19	A15	3	7.0	20			B		5	0000—2400	
22			TOKUSHIMA	J	134E35 34N04	A15	5	9.0	250			B		5	0000—2400	
23			WEONJU	KOR	127E56 37N23	C10	10	10.6				A	110	6	0000—2400	
24			HYESAN	KRE	128E12 41N24	A16	1	0.0				A	30		2000—1800	
25			GREENVILLE	LBR	09W02 05N01	A20	10	10.4				A	76	5	0500—2400	
26		S	JOHORE BAHRU	MLA	103E45 01N27	A20	50	19.1				A	150	5	2200—1700	
27		S	TRONOH	MLA	100E59 04N23	A20	100	22.1				A	150	5	2200—1700	
28			GOUNDAM	MLI	03W40 16N25	C 9	10	12.1				A	158		0600—2400	
29			ABEOKUTA	NIG	03E18 07N10	C 9	10	10.6				A	100	4	0400—2300	
30			SOKOTO	NIG	05E18 12N57	C 9	50	17.6				A	100	4	0500—2300	
31			GISBORNE	NZL	178E04 38S42	A20	5	7.4				A	50	5	0000—2400	
32			COTABATO CITY	PHL	124E14 07N13	C 9	5	7.4				A	79	3	2100—1600	
33			ROXAS CITY	PHL	122E45 11N34	C 9	1	0.4				A	79	3	2100—1600	
34			MIERCUREA CIUC	ROU	25E48 46N23	A20	15	12.4				A	105	5	0000—2400	
35			ABU HAMED	SDN	33E08 15N30	A20	100	23.4				A	205	3	0500—1600	24
36			GIZO	SLM	156E50 08S06	A20	10	12.1				A		1	1900—1200	
37			S TOME	STP	06E45 00N21	A20	5	7.4				A	80	3	0000—2400	
38			KOUMRA	TCD	17E33 08N55	C 9	5	7.4				A			0400—2300	
39			CHOMUTOV	TCH	13E24 50N28	A20	1	0.4				A	60	5	0000—2400	
40			VARNSDORF	TCH	14E36 50N54	A20	1	0.4				A	60	5	0000—2400	
41			JOHNS CORNER	TGK	35E12 08S20	C 9	50	17.4				A	77	4	0300—2100	
42			PAVLODAR	URS	76E57 52N18	A18	50	21.0	320	120—160	7.0	B		4	0000—2400	
43			RIGA	URS	24E00 56N55	A16	50	20.4				A	220	4	0000—2400	
44			ROSTOV NA DONU	URS	39E43 47N12	A16	300	27.7	60	180—300	12.7	B		4	0000—2400	
45			TAICHET	URS	98E01 55N57	A18	50	20.4				A	220	4	0000—2400	
46			BACKI PETROVAC	YUG	19E35 45N22	D 9	0.1	−9.6				A	40	4	0800—1500	7
47			KUMANOVO	YUG	21E44 42N09	D 9	2	3.6				A	60	4	0800—1500	7
48			SARAJEVO	YUG	18E09 44N01	D 9	100	20.4				A	80	4	0600—1700	15
49			SMEDEREVO	YUG	20E54 44N38	D 9	1	0.4				A	45	4	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

954 KHZ (48)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	954		CHARTERSTRS QL	AUS	146E18 20S06	A20	5	7.4				A		3	1900—1400	
2	(48)		SYDNEY NSW	AUS	151E04 33S51	A20	5	9.1				A	145	4	0000—2400	
3			PNT DELGADA	AZR	25W40 37N45	A20	10	10.4				A	60	4	0000—2400	
4			PHNOM PENH	CBG	104E55 11N34	C10	1	0.4				A	80	3	0000—2400	
5		S	DANBA	CHN	101E53 30N53	A20	20	13.6				A	90	4	2000—1800	
6			HAIKOU	CHN	110E15 20N02	A20	30	15.4				A	90	4	2000—1800	
7			JIANHE	CHN	108E45 26N39	A20	5	7.6				A	90	5	2000—1800	
8		S	NEIJIANG SHI	CHN	105E15 29N39	A20	20	13.6				A	90	4	2000—1800	
9		S	SHIMIAN	CHN	102E27 29N12	A20	10	10.6				A	90	4	2000—1800	
10			TIANJIN	CHN	117E09 39N09	A20	50	17.6				A	90	4	2000—1800	
11			MADRID	E	03W40 40N26	D 9	20	13.4				A	80	4	0000—2400	
12			LONDON MEDWAY	G	00E32 51N22	A20	1	0.4				A	60	3	0000—2400	
13			TORBAY	G	03W35 50N27	A20	0.7	−3.5				A	45	5	0000—2400	
14			IRAKLION	GRC	25E07 35N20	C 9	20	13.4				A	65	5	0400—2400	
15			DHARMSALA	IND	76E15 32N12	A20	300	26.9				A	160	3	0300—0900	25
16			NAJIBABAD	IND	78E12 29N24	A20	200	25.1				A	160	3	0300—0900	25
17			NAJIBABAD	IND	78E12 29N24	A20	100	22.0	25	245—275	13.0	B		3	0900—0300	
18			PONDICHERRY	IND	79E54 12N00	A20	300	26.9				A	160	3	0300—1000	25
19			KENDARI	INS	122E36 03S57	A18	10	10.4				A	78	5	2100—1600	
20			HAIFA	ISR	35E03 32N49	D 9	100	23.0				A	157	3	0000—2400	18/TUR 33
21			TOKYO	J	139E40 35N48	A15	100	22.1				A	129	4	0000—2400	
22			KISUMU	KEN	34E45 00S05	C 9	100	22.1				A	130	4	0000—2400	
23			UNRYUL	KRE	125E10 38N30	A16	1	0.0				A	30		2000—1800	
24			BEYROUTH	LBN	35E29 33N54	A20	10	10.4				A	65	4	0300—2400	24
25			SANOKOLE	LBR	08W43 07N22	A20	10	10.4				A	79	5	0500—2400	
26			KUCHING	MLA	110E20 01N33	A20	10	12.1				A	137	5	2200—1500	
27			ARWAIHER	MNG	102E20 46N20	A18	5	7.6				A	120	5	2200—1500	
28			ATAR	MTN	13W03 20N31	B20	20	13.4				A	79		0600—2400	24
29			ENUGU	NIG	07E28 06N27	C 9	10	10.4				A	80	4	0500—2300	
30			HAMILTON	NZL	175E21 37S53	A20	2	3.4				A	50	3	0000—2400	
31			GWADAR	PAK	62E30 25N10	A20	10	10.4				A	78	4	0000—2000	
32			ILIGAN CITY	PHL	124E14 08N13	C 9	1	0.4				A	78	3	2100—1600	
33			VALENZUELA BUL	PHL	120E58 14N40	C 9	10	10.4				A	78	3	0000—2400	
34			AL ARISH	QAT	51E04 26N03	D 9	750	37.0	280	310—240	26.0	B		5	0300—2100	24
35			DEIR EZ ZOR	SYR	40E12 35N25	C 9	60	17.8				A	33	2	0300—2400	
36			FADA	TCD	21E35 17N11	C 9	10	12.1				A			0500—2300	
37		S	BRNO	TCH	17E08 49N23	C 9	750	32.2				A	184	4	0000—2400	
38		S	KARLOVY VARY	TCH	12E52 50N15	C 9	30	15.2				A	60	5	0000—2400	
39		S	OSTRAVA	TCH	18E12 49N48	C 9	50	17.6				A	100	5	0000—2400	
40		S	PLZEN	TCH	13E23 49N45	C 9	60	18.4				A	100	4	0000—2400	
41		S	BANGKOK	THA	100E36 13N55	A20	5	7.0				A	36	2	0000—2400	
42		S	CHANDHABURI	THA	102E06 12N36	A20	5	7.4				A	42	3	0000—2400	
43		S	MAHA SARAKHAM	THA	103E18 16N10	A20	1.1	0.8				A	75	3	0000—2400	
44		S	NAKHON SAWAN	THA	100E18 15N16	A20	5	7.4				A	60	2	0000—2400	
45		S	PHITSANULOK	THA	100E22 16N49	A20	5	7.4				A	45	2	0000—2400	
46		S	UDON THANI	THA	102E48 17N23	A20	5	7.4				A	78	3	0000—2400	
47			TRABZON	TUR	39E46 40N59	D 9	300	26.9				A	157	3	0200—2300	18/ISR
48			ARALSK	URS	61E41 46N45	A18	150	26.7	30	150—260	15.7	B		4	0000—2400	
49			BIKIN	URS	134E14 46N49	C 9	50	17.6				A	90	4	0000—2400	
50			GNJILANE	YUG	21E28 42N28	D 9	8	9.4				A	50	4	0000—2400	

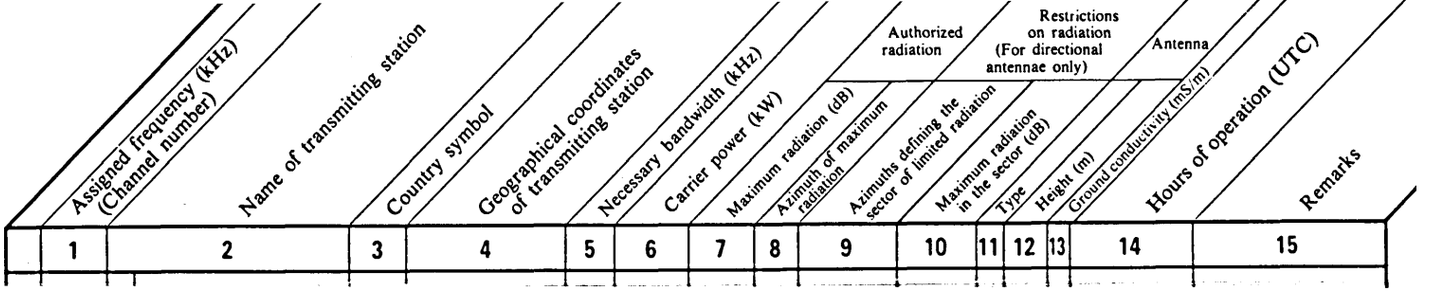
	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	963		KORCE	ALB	20E48	40N36	A20	15	13.9				A	155	5	0500—2200	
2	(49)		RAS TANURA	ARS	50E05	26N40	A20	0.1	—10.0				A	15	3	0100—2400	24
3			BUNBURY WA	AUS	115E45	33S20	A20	5	7.4				A	57	3	1900—1400	
4			GRIFFITH NSW	AUS	146E08	34S19	A20	5					B		2	1900—1400	
5			WARWICK QLD	AUS	151E59	28S01	A20	5					B		3	1900—1400	
6			LAENGENFELD	AUT	10E58	47N05	D 9	0.1	—10.0				A	15	6	0000—2400	
7			S GALLEN	AUT	14E37	47N41	D 9	0.1	—10.0				A	15	6	0000—2400	
8			UNZMARKT	AUT	14E27	47N12	D 9	0.1	—10.0				A	15	6	0000—2400	
9			SYLHET	BGD	92E00	25N00	A20	20	13.6				A	122	3	0000—1800	
10			SOFIA	BUL	23E41	42N51	A18	150	22.4				A	110	4	0000—2400	18/FNL
11		S	AKSU	CHN	80E19	41N03	A20	10	12.0	90	230—310	4.0	B		4	2000—1800	
12		S	ALTAY	CHN	88E18	47N50	A20	10	10.6				A	90	4	2000—1800	
13		S	BAIRIN ZUOQI	CHN	119E12	43N58	A20	20	13.6				A	90	4	2000—1800	
14		S	BENXI SHI	CHN	123E38	41N10	A20	20	13.6				A	90	4	2000—1800	
15		S	BOLE	CHN	82E08	44N54	A20	10	10.6				A	90	4	2000—1800	
16		S	CHIFENG SHI	CHN	118E52	42N18	A20	50	17.6				A	90	4	2000—1800	
17		S	HAMI	CHN	93E20	42N50	A20	10	10.6				A	90	4	2000—1800	
18		S	HUANREN	CHN	125E21	41N15	A20	10	10.6				A	90	4	2000—1800	
19			HUHHOT	CHN	111E30	41N12	A20	5	7.6				A	90	4	2000—1800	
20		S	KARAMAY	CHN	85E00	45N32	A20	10	10.6				A	90	4	2000—1800	
21		S	KORLA	CHN	86E10	41N44	A20	10	10.6				A	90	4	2000—1800	
22		S	YECHENG	CHN	77E22	37N55	A20	20	16.0	90	240—300	0.0	B		4	2000—1800	
23		S	YINGKOU SHI	CHN	122E12	40N41	A20	100	23.4				A	180	4	2000—1800	
24			NICOSIA	CYP	33E23	35N09	C 9	600	28.4				A	100	4	0000—2400	18/IRN SDN TUN
25			PARIS	F	02E25	48N53	D 9	10	10.4				A	65	3	0900—1600	
26			PORI	FNL	21E52	61N28	D 9	600	31.2				A	200	4	0000—2400	18/BUL 41/TURK
27			TURKU	FNL	22E18	60N26	D 9	100	22.1				A	153	4	0000—2400	42/PORI
28			BLACKBURN	G	02W29	53N45	A20	0.8	—1.0	90	280—290	—9.9	B		3	0000—2400	
29			LAMBARENE	GAB	10E13	00S12	C 9	10	12.1				A		5	0400—2400	
30			BANFORA	HVO	04W45	10N38	A20	20	13.6				A	123	4	0000—2400	
31			GWALIOR	IND	78E10	26N14	A20	300	26.9				A	160	3	0300—0900	25
32			JALGAON	IND	75E31	20N55	A20	100	21.0	180	345— 15	17.0	B		3	0000—2400	
33			MANGALORE	IND	74E48	12N48	A20	300	26.9				A	160	4	0300—1000	25
34			TAWANG	IND	91E54	27N36	A20	200	25.1				A	160	4	0300—0900	25
35			BIAK	INS	136E04	01S11	A18	2	3.4				A	78	5	2000—1500	
36			DJEMBER	INS	113E45	08S07	A18	10	10.4				A	78	4	2200—1700	
37			TIR CHONAILL	IRL	08W17	55N05	A20	10	10.4				A	61	5	0000—2400	
38			BIRJAND	IRN	59E12	32N52	A20	20	13.6				A	120	3	0200—2100	18/CYP
39			AOMORI	J	140E46	40N48	A15	5	9.0	40			B		5	0000—2400	
40			HAGI	J	131E24	34N25	A15	1	0.4				A	47	5	0000—2400	
41			MATSUYAMA	J	132E44	33N49	A15	5	9.0	160			B		5	0000—2400	
42			SAGA	J	130E16	33N15	A15	1	0.6				A	108	5	0000—2400	
43			YONAGO	J	133E19	35N27	A15	1	0.6				A	103	5	0000—2400	
44			ANDONG	KOR	128E43	36N33	C10	10	10.6				A	100	6	0000—2400	
45			JEJU	KOR	126E34	33N26	C10	10	10.6				A	120	4	0000—2400	
46			ORANG	KRE	129E39	41N25	A16	2	3.0				A	30		2000—1800	
47			KUWAIT	KWT	48E20	29N34	A20	20	13.4				A	75	8	0000—2400	24
48			KUALATRENGGANU	MLA	103E07	05N18	A20	10	10.6				A	100	5	2200—1700	
49			TETE	MOZ	33E35	16S11	C10	100	20.4				A	78	4	0400—2200	
50			MARADI	NGR	07E00	13N30	C 9	20	15.1				A		4	0000—2400	
51			OTJIWARONGO	NMB	16E38	20S28	A20	50	19.1				A	150	3	0000—2400	
52		S	CHRISTCHURCH	NZL	172E39	43S42	A20	10	10.6				A	120	4	0000—2400	
53		S	MAHIA	NZL	177E51	39S05	A20	10	12.1				A	150	3	0000—2400	
54			CEBU CITY	PHL	123E56	10N19	C 9	10	10.4				A	77	3	2100—1600	



963 KHZ (49)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	963		ZAMBOANGA CITY	PHL	122E05 06N55	C 9	5	7.4				A	77	3	2100—1600	
2	(49)		DABROWA TARNOW	POL	21E00 50N10	A20	1	0.4				A	78	5	0000—2400	
3			KLUCZBORK	POL	18E13 50N59	A20	1	0.4				A	78	5	0000—2400	
4			LIPSKO	POL	21E38 51N10	A20	1	0.4				A	78	5	0000—2400	
5			LUBACZOW	POL	23E07 50N10	A20	1	0.4				A	78	5	0000—2400	
6			NISKO	POL	22E09 50N31	A20	1	0.4				A	78	5	0000—2400	
7			SLUBICE	POL	14E35 52N22	A20	1	0.4				A	78	5	0000—2400	
8			WLOSZCZOWA	POL	19E58 50N52	A20	1	0.4				A	78	5	0000—2400	
9		S	BEJA	POR	07W52 37N59	A20	1	0.0				A	80	3	0000—2400	
10		S	LISBOA	POR	09W08 38N43	A20	10	10.0				A	80	3	0000—2400	
11		S	PORTALEGRE	POR	07W25 39N18	A20	10	10.0				A	80	5	0000—2400	
12			SOBA	SDN	32E40 15N30	A20	200	26.4				A	181	3	0400—2400	18/CYP 24
13			MATAM	SEN	13W15 15N40	C 9	10	10.4				A	50	4	0600—2400	
14			MOGADISCIO	SOM	45E20 02N02	A16	150					B		4	0300—2000	
15			N RATCHASIMA	THA	102E07 14N57	A20	10	10.4				A	77	2	0000—2400	
16			PHUKET	THA	98E23 07N51	A20	25	14.4				A	78	3	0000—2400	
17			TUNIS DJEDEIDA	TUN	09E56 36N50	D 9	200	25.1				A	145	4	0000—2400	18/CYP 24
18			KULIAB	URS	69E46 37N55	C10	10	15.0	10	130—230	6.0	B		4	0000—2400	
19			ULAN UDE	URS	107E38 51N50	A18	50	20.0	330	100—200	11.0	B		4	0000—2400	
20			UZICKA POZEGA	YUG	20E03 43N52	D 9	200	26.0	130	270—350	8.0	B		4	0800—1500	7
21			KOLWEZI	ZAI	25E27 10S47	C 9	10	10.4				A	60	8	0000—2400	

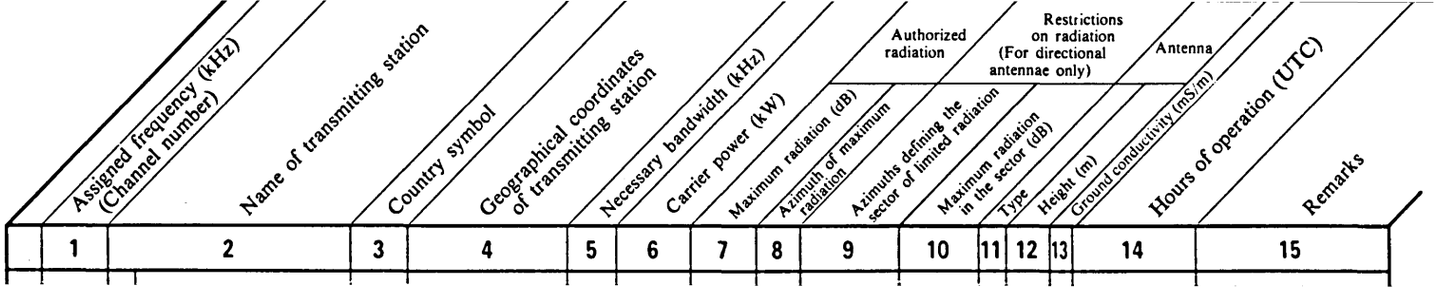
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	972		PUKE	ALB	19E50 42N03	A20	20	15.1				A	155	6	0400—2300	23/URS
2	(50)		ADELAIDE SA	AUS	138E34 34S50	A20	5	9.1				A	141	2	0000—2400	
3			MURWILLUMB NSW	AUS	153E30 28S19	A20	5					B		4	1900—1400	
4			PABEGOU	BEN	01E35 09N48	C10	5	7.4				A	77	4	0500—2400	
5			SEBELE	BOT	25E58 24S34	A20	50	17.4				A	100	4	0300—2100	
6			KUALA BELAIT	BRU	114E12 04N36	A20	10	10.0				A	24	4	2200—1500	
7		S	ANYANG SHI	CHN	114E22 36N08	A20	50	17.4				A	70	4	2000—1800	
8		S	GUSHI	CHN	115E40 32N10	A20	10	10.4				A	70	4	2000—1800	
9			HARBIN	CHN	126E52 45N49	A20	20	13.4				A	70	4	2000—1800	
10		S	JIAOZUO	CHN	113E14 35N15	A20	10	10.4				A	70	4	2000—1800	
11		S	LANKAO	CHN	114E48 34N48	A20	10	10.4				A	70	4	2000—1800	
12		S	NANYANG SHI	CHN	112E32 33N00	A20	50	17.4				A	70	4	2000—1800	
13		S	RUYANG	CHN	112E28 34N09	A20	10	10.4				A	70	4	2000—1800	
14		S	SANMENXIA	CHN	111E13 34N46	A20	20	13.4				A	70	4	2000—1800	
15		S	XINYANG SHI	CHN	114E04 32N10	A20	50	17.4				A	70	4	2000—1800	
16		S	XUCHANG SHI	CHN	113E48 34N02	A20	10	10.4				A	70	4	2000—1800	
17		S	ZHUMADIAN	CHN	114E02 32N59	A20	5	7.4				A	70	4	2000—1800	
18			AMPARAI	CLN	81E40 07N20	A10	50	17.6				A	108	5	0000—1800	
19			BERTOUA	CME	15E42 04N34	C 9	100	22.1				A	154	5	0500—2300	
20			MPOUYA	COG	16E17 02S40	A20	2	3.4				A	77	5	0000—2400	
21		S	BONN	D	07E06 50N43	D 9	5	7.6				A	109	4	0000—2400	
22		S	HAMBURG	D	10E07 53N31	D 9	600	31.2				A	184	3	0800—1700	
23		S	HAMBURG	D	10E07 53N31	D 9	600	29.7	267	65—110	21.8	B		3	1700—0800	
24		S	KLEVE	D	06E07 51N47	D 9	3	5.4				A	110	4	0000—2400	
25			LANGENBERG	D	07E08 51N21	D 9	800	31.1				A	165	4	0800—1700	
26			BAHAR DAR	ETH	37E27 11N20	C 9	100	22.1				A	162	3	0400—2300	
27			LONDON	G	00W11 51N28	A20	1	0.4				A	80	4	0000—2400	
28			BOKE	GUI	14W18 10N56	C 9	50	19.0	50	160—280	22.0	B		4	0000—2400	
29			CUTTACK	IND	85E55 20N35	A20	300	26.9				A	155	3	0000—2400	
30			DARBHANGA	IND	85E56 26N09	A20	300	26.9				A	155	3	0300—0900	25
31			HISSAR	IND	75E48 29N00	A20	300	26.9				A	155	4	0300—0900	25
32			JOGJAKARTA	INS	110E24 07S48	A18	20	13.4				A	77	5	2200—1700	
33			ILAM	IRN	46E25 33N39	A20	10	10.4				A	76	3	0200—2100	
34			MIZPE RAMON	ISR	34E48 30N46	D 9	10	12.1				A		3	0000—2400	33
35			KIMJAE	KOR	126E52 35N49	C10	1500	32.4				A	100	5	2100—0800	7
36			KIMJAE	KOR	126E52 35N49	C10	500	30.0	25	220—310	17.0	B		5	0800—2100	
37			KIMJAE	KOR	126E52 35N49	C10	500	30.0	145			B				
38			SINWON	KRE	125E40 38N14	A16	1	0.0				A	30		2000—1800	
39		S	BENI ULID	LBY	14E01 31N45	D 9	100	22.1				A	155	6	0400—2200	24
40		S	HUN	LBY	15E56 29N07	D 9	100	22.1				A	155	6	0400—2200	24
41		S	MURZUQ	LBY	13E57 25N59	D 9	100	22.1				A	155	6	0400—2200	24
42			PT SANTO 2	MDR	16W20 33N04	A20	1	0.4				A	60	4	0000—2400	
43			KUALA KRAI	MLA	102E12 05N30	A20	50	19.1				A	150	5	0000—2400	
44			MARRAKECH	MRC	08W00 31N26	A18	50	17.4				A	60	5	0500—2400	24
45			KATSINA 1	NIG	07E31 12N52	C 9	10	10.6				A	100	4	0500—2300	
46			CAGAYAN DE ORO	PHL	124E38 08N28	C 9	5	7.4				A	77	3	2100—1600	
47			S PABLO CITY	PHL	121E19 14N04	C 9	1	0.4				A	77	3	2100—1600	
48			SUMBAWANGA	TGK	31E42 07S55	C 9	20	15.1				A	142	4	0300—2100	
49			UDON THANI	THA	102E48 17N22	A20	50	17.4				A	75	3	0000—2400	
50			FUJAIRAH	UAE	56E19 25N09	C 9	100	23.4				A	177	7	0200—2200	24
51		S	NIKOLAEV	UKR	32E01 46N58	A16	500	32.0	100	270— 30	20.0	B		4	0000—2400	
52			IUJNSAKHALINSK	URS	142E40 47N00	A16	50	17.0				A	220	4	0300—1300	
53			IUJNSAKHALINSK	URS	142E40 47N00	A16	25	14.0				A	220	4	1300—0300	
54			MURGAB	URS	73E56 38N12	A18	50	17.0				A	220	4	0000—2400	



972 KHZ (50)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	972	S SMOLENSK	URS	32E04 54N48	A16	20	13.0				A	220	4	0000—2400	

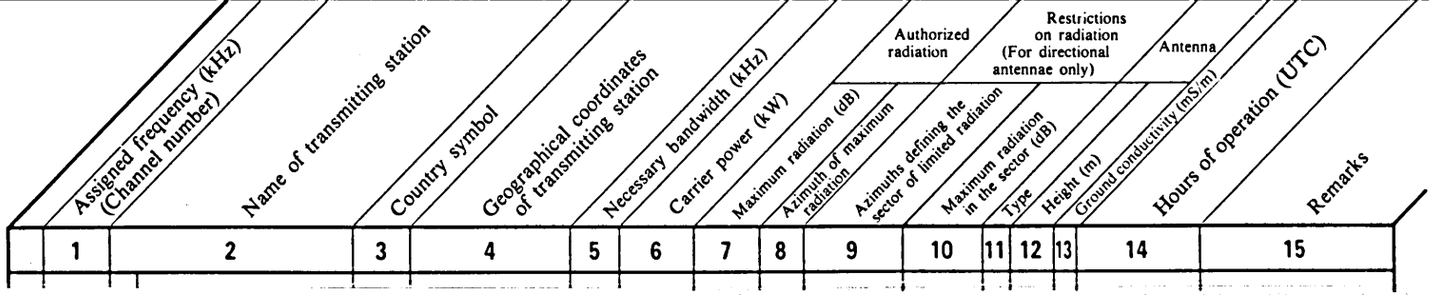
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	981		PERMET	ALB	20E15 40N15	A20	1	0.4				A	76	6	0400—2300	
2	(51)		ALGER 2	ALG	00E36 36N45	D 9	400	28.1				A	158	2	0000—2400	18/GRC 24
3			MEDINAH	ARS	39E33 24N28	C10	20	13.6				A	92	4	0000—2400	24
4			OULA	ARS	37E50 26N40	C 9	20	13.6				A	120	4	0400—1400	24
5			HAMILTON VIC	AUS	142E01 37S41	A20	5	7.4				A	75	2	0000—2400	
6			KALGOORLIE WA	AUS	121E29 30S43	A20	5	7.0				A	29	2	1900—1400	
7			ROCKHAMPTON	AUS	150E28 23S21	A20	5	7.4				A	48	3	1900—1400	
8			VARNA	BUL	27E40 43N03	A18	150	22.4				A	110	4	0000—2400	
9		S	ABGANAR QI	CHN	116E08 43N56	A20	10	10.4				A	70	4	2000—1800	
10		S	ANCI	CHN	116E42 39N31	A20	10	10.4				A	70	4	2000—1800	
11		S	BAICHENG	CHN	122E50 45N37	A20	10	10.4				A	70	4	2000—1800	
12		S	BAOTOU	CHN	109E56 40N40	A20	20	13.4				A	70	4	2000—1800	
13		S	CHANGCHUN	CHN	125E24 43N48	A20	50	17.4				A	70	4	2000—1800	
14		S	CHONGAN	CHN	118E01 27N43	A20	10	10.4				A	70	4	2000—1800	
15		S	DANDONG	CHN	124E22 40N07	A20	10	10.4				A	70	4	2000—1800	
16		S	DINGNAN	CHN	115E01 24N45	A20	10	10.4				A	70	4	2000—1800	
17		S	DONG UJUMQIN	CHN	116E56 45N30	A20	10	10.4				A	70	4	2000—1800	
18		S	DUNHUA	CHN	128E13 43N22	A20	5	7.4				A	70	4	2000—1800	
19		S	ENPING	CHN	112E18 22N11	A20	10	10.4				A	70	4	2000—1800	
20		S	ERENHOT	CHN	112E00 43N39	A20	50	17.4				A	70	4	2000—1800	
21		S	FENGNING	CHN	116E39 41N13	A20	20	13.4				A	70	4	2000—1800	
22		S	FU XIAN 2	CHN	122E00 39N38	A20	5	7.4				A	70	4	2000—1800	
23		S	FUHAI	CHN	87E45 47N00	A20	1	0.4				A	70	4	2000—1800	
24		S	FUSONG	CHN	127E17 42N19	A20	10	10.4				A	70	4	2000—1800	
25		S	FUYUN	CHN	89E33 47N00	A20	10	10.4				A	70	4	2000—1800	
26		S	FUZHOU 1	CHN	116E19 28N00	A20	10	10.4				A	70	4	2000—1800	
27		S	FUZHOU 2	CHN	119E24 26N06	A20	100	22.1				A	140	4	2000—1800	
28		S	GAR	CHN	79E58 32N12	A20	10	10.4				A	70	5	2000—1800	
29		S	GUANGZHOU	CHN	113E14 23N11	A20	50	19.1				A	140	4	2000—1800	
30		S	HOTAN	CHN	80E02 37N00	A20	10	10.0	120	260—340	0.0	B		4	2000—1800	
31		S	HURE QI	CHN	121E41 42N45	A20	5	7.4				A	70	4	2000—1800	
32		S	JARUD QI	CHN	120E54 44N34	A20	10	10.4				A	70	4	2000—1800	
33		S	JIAN SHI	CHN	114E59 27N08	A20	50	17.4				A	70	4	2000—1800	
34		S	JIANNING	CHN	116E50 26N53	A20	10	10.4				A	70	4	2000—1800	
35		S	JINGDEZHEN	CHN	117E11 29N17	A20	20	13.4				A	70	4	2000—1800	
36		S	JINHU	CHN	119E01 33N02	A20	5	7.4				A	70	3	2000—1800	
37		S	JINZHOU	CHN	121E07 41N07	A20	20	13.4				A	70	4	2000—1800	
38		S	KASHI	CHN	76E00 39N25	A20	10	12.0	90	240—300	—4.0	B		4	2000—1800	
39		S	LHAZE	CHN	87E50 29N05	A20	10	10.4				A	70	5	2000—1800	
40		S	LHORONG	CHN	95E43 30N48	A20	20	13.4				A	70	5	2000—1800	
41		S	LIAN XIAN	CHN	112E23 24N47	A20	20	13.4				A	70	4	2000—1800	
42		S	LIYANG	CHN	119E29 31N26	A20	5	7.4				A	70	3	2000—1800	
43		S	LONGCHUAN	CHN	115E11 24N04	A20	20	13.4				A	70	4	2000—1800	
44		S	LONGYAN	CHN	117E02 25N07	A20	10	10.4				A	70	4	2000—1800	
45		S	MADO	CHN	98E14 34N50	A20	20	13.4				A	70	5	2000—1800	
46		S	MARKAM	CHN	98E10 29N30	A20	10	10.4				A	70	5	2000—1800	
47		S	NAGQU	CHN	92E02 31N25	A20	50	17.4				A	70	5	2000—1800	
48		S	NANG XIAN	CHN	93E10 29N05	A20	10	10.4				A	70	5	2000—1800	
49		S	NANPING	CHN	118E12 26N45	A20	10	10.4				A	70	4	2000—1800	
50		S	OTOG QI	CHN	107E59 39N06	A20	20	13.4				A	70	4	2000—1800	
51		S	QINGYUAN	CHN	124E55 42N06	A20	5	7.4				A	70	4	2000—1800	
52		S	QOG QI	CHN	106E58 41N28	A20	10	10.4				A	70	4	2000—1800	
53		S	RUIJIN	CHN	116E00 25N50	A20	20	13.4				A	70	4	2000—1800	
54		S	RUOQIANG	CHN	88E10 39N00	A20	10	10.4				A	70	4	2000—1800	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	981	S	SHANTOU	CHN	116E36 23N30	A20	20	13.4				A	70	4	2000—1800	
2	(51)	S	SHIJIAZHUANG	CHN	114E40 37N50	A20	50	17.4				A	70	4	2000—1800	
3		S	TACHENG	CHN	83E05 46N45	A20	10	10.4				A	70	4	2000—1800	
4		S	TURPAN	CHN	89E02 42N53	A20	10	10.4				A	70	4	2000—1800	
5		S	WANGQING	CHN	129E46 43N18	A20	5	7.4				A	70	4	2000—1800	
6		S	WEI XIAN	CHN	115E15 36N58	A20	5	7.4				A	70	4	2000—1800	
7		S	XANZA	CHN	88E42 30N54	A20	50	17.4				A	70	5	2000—1800	
8		S	XIAMEN	CHN	118E18 24N24	A20	10	10.4				A	70	4	2000—1800	
9		S	XIANGHUANG QI	CHN	113E43 42N18	A20	50	17.4				A	70	4	2000—1800	
10		S	XINHE	CHN	82E40 41N25	A20	10	10.4				A	70	4	2000—1800	
11		S	XINING	CHN	101E50 36N35	A20	20	13.4				A	70	5	2000—1800	
12		S	XIUSHUI	CHN	114E34 29N03	A20	10	10.4				A	70	4	2000—1800	
13		S	XUZHOU	CHN	117E20 34N14	A20	10	10.4				A	70	3	2000—1800	
14		S	YINING SHI	CHN	81E28 43N55	A20	10	10.4				A	70	4	2000—1800	
15		S	YIWU	CHN	94E40 43N20	A20	1	0.4				A	70	4	2000—1800	
16		S	YU XIAN	CHN	114E34 39N50	A20	10	10.4				A	70	4	2000—1800	
17		S	YUSHU 2	CHN	97E00 33N00	A20	10	10.4				A	70	5	2000—1800	
18		S	ZHANGWU	CHN	122E29 42N24	A20	10	10.4				A	70	4	2000—1800	
19		S	ZHONGBA	CHN	84E12 29N39	A20	10	10.4				A	70	5	2000—1800	
20			MADINGOU	COG	13E33 04S10	A20	20	13.6				A	101	5	0000—2400	
21			NICOSIA	CYP	33E23 35N09	C 9	100	20.6				A	100	4	0000—2400	
22			BARIS	EGY	30E37 24N40	D 9	20	13.6				A	100	4	0000—2400	24
23			ATHINAI	GRC	23E25 37N58	C 9	200	25.1				A	150	4	0400—2400	18/ALG
24		S	AVEZZANO	I	13E28 42N02	D 9	1	0.4				A	50	5	0000—2400	
25		S	RIETI	I	12E54 42N25	D 9	1	0.4				A	50	5	0000—2400	
26		S	TARANTO	I	17E14 40N28	D 9	1	0.4				A	50	5	0000—2400	
27		S	TERAMO	I	13E42 42N39	D 9	1	0.4				A	50	5	0000—2400	
28		S	TRIESTE	I	13E46 45N40	D 9	10	10.4				A	80	4	0000—2400	
29			BARODA	IND	73E16 22N17	A20	300	26.9				A	155	3	0300—0900	25
30			GOALPARA	IND	90E40 26N13	A20	300	26.9				A	155	3	0300—0900	25
31			RAIPUR	IND	81E41 21N15	A20	100	22.0	255	5— 35	13.0	B		3	0000—2400	
32			TUTICORIN 1	IND	78E12 08N48	A20	300	26.9				A	155	3	0300—1000	25
33			TUTICORIN 2	IND	78E12 08N48	A20	200	25.1				A	155	3	1000—0300	
34			ENDEH	INS	121E40 08S51	A18	5	7.4				A	76	5	2100—1600	
35			VOI	KEN	38E35 03S20	C 9	100	20.6				A	100	4	0000—2400	
36			PYONGYANG	KRE	125E48 39N21	D 9	500	31.0				B		6	2000—1000	
37			PYONGYANG	KRE	125E48 39N21	D 9	250	28.0				B		6	1000—1800	
38			PT HARCOURT	NIG	06E46 04N59	C 9	10	10.4				A	65	4	0500—2300	
39			KAIKOHE	NZL	173E52 35S22	A20	5	7.4				A	50	4	0000—2400	
40			MIR PUR KHAS	PAK	69E00 25N20	A20	100	20.4				A	77	4	0000—2000	
41			BACOLOD CITY	PHL	122E57 10N41	C 9	5	7.4				A	76	3	2100—1600	
42			DAGUPAN CITY	PHL	120E20 16N02	C 9	5	7.4				A	76	3	2100—1600	
43			DAVAO CITY	PHL	125E35 07N04	C 9	5	7.4				A	76	3	2100—1600	
44		S	BRAGANCA	POR	06W45 41N47	A20	10	10.0				A	75	6	0000—2400	
45		S	COIMBRA	POR	08W24 40N13	A20	20	13.0				A	75	5	0000—2400	
46		S	GUARDA	POR	07W14 40N22	A20	10	10.0				A	75	5	0000—2400	
47		S	V REAL	POR	07W43 41N16	A20	10	10.0				A	75	5	0000—2400	
48		S	VALENCA	POR	08W38 42N01	A20	10	10.0				A	75	5	0000—2400	
49			LE PORT 1	REU	55E18 20S55	A20	10	10.6				A	100	3	0000—2400	
50			BOHUSLAEN	S	11E34 57N58	D 9	600	30.0				A	150	4	0000—2400	41/GOETEBORG
51			GOETEBORG	S	11E56 57N39	D 9	600	30.0				A	150	5	0000—2400	42/BOHUSLAEN
52			KEDOUGOU	SEN	12W11 12N32	A20	50	17.4				A	50	4	0600—2400	
53			CHEB	TCH	12E23 50N15	A20	1	0.4				A	60	5	0000—2400	
54			NOVY JICIN	TCH	18E01 49N36	A20	1	0.4				A	60	5	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	981		TABOR	TCH	14E40 49N24	A20	1	0.4				A	60	5	0000—2400	
2	(51)	S	BANGKOK	THA	100E30 13N45	A20	10	10.0				A	30	2	0000—2400	
3		S	MAE HONG SON	THA	97E58 19N18	A20	5	7.0				A	20	5	0000—2400	
4		S	NAKHON PHANOM	THA	104E45 17N23	A20	10	10.4				A	60	3	0000—2400	
5		S	YALA	THA	101E17 06N10	A20	50	19.1				A	150	3	0000—2400	
6			AKTIUBINSK	URS	57E13 50N17	A16	150	21.8				A	220	4	0000—2400	
7			GARM	URS	70E20 39N01	C10	20	13.0				A	220	4	0000—2400	
8			KRASNOIARSK	URS	92E54 56N01	A16	100	25.0	95	190—280	10.0	B		4	0000—2400	
9			SANAA 2	YEM	44E11 15N22	C 9	600	28.4				A	120	4	0300—2300	24
10			BOR	YUG	22E06 44N06	D 9	10	10.4				A	75	4	0000—2400	
11			CACAK	YUG	20E21 43N54	D 9	10	10.4				A	45	4	0000—2400	
12			MONZE	ZMB	27E40 16S15	A20	2	6.4				A	178	2	0200—2100	



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	990	SILVA PORTO	AGL	16E57 12S25	A20	5	7.4				A	76	3	0000—2400	
2	(52)	KUKES	ALB	20E23 42N09	A20	15	12.4				A	94	6	0500—2200	
3		GURIAT	ARS	37E25 31N25	C 9	500	33.0	328	20—280	17.0	B		4	0000—2400	5/LBN 24
4		BURNIE TAS	AUS	145E44 40S57	A20	5					B		4	1900—1400	
5		GOVE NT	AUS	136E47 12S11	A20	5	7.4				A	61	3	1900—1400	
6		PERTH WA	AUS	115E50 32S00	A20	5	7.4				A	78	4	0000—2400	
7	S	BIJIANG	CHN	98E52 26N34	A20	10	10.4				A	70	5	2000—1800	
8	S	BINCHUAN	CHN	100E33 25N50	A20	10	10.4				A	70	5	2000—1800	
9	S	CHANGNING	CHN	99E29 24N51	A20	10	10.4				A	70	5	2000—1800	
10	S	GEJIU	CHN	103E08 23N21	A20	20	13.4				A	70	5	2000—1800	
11		HAILAR	CHN	119E45 49N02	A20	0.1	−10.0				A	60	4	2000—1800	
12	S	JINGHONG	CHN	100E43 22N01	A20	20	13.4				A	70	5	2000—1800	
13		LUDA	CHN	121E30 38N54	A20	10	10.4				A	70	4	2000—1800	
14	S	QUJING	CHN	103E40 25N28	A20	10	10.4				A	70	5	2000—1800	
15		SHANGHAI	CHN	121E29 31N15	A20	20	13.4				A	70	3	2000—1800	
16	S	ZHAOTONG	CHN	103E34 27N20	A20	20	13.4				A	70	5	2000—1800	
17		JAFFNA	CLN	80E00 09N37	C10	50	17.4				A	84	3	0000—1800	
18		MAKOUA	COG	15E35 00S00	A20	10	10.4				A	76	9	0000—2400	
19	S	BERLIN 2	D	13E26 52N27	D 9	300	26.9				A	140	4	0000—2400	11/USA
20	S	HOF SAALE	D	11E54 50N19	D 9	40	22.0	20	135—145	2.0	B		4	1500—0800	
21	S	HOF SAALE	D	11E54 50N19	D 9	40	22.0		245—255	6.0	B				
22		BARCELONA	E	02E09 41N25	D 9	10	10.4				A	80	5	0000—2400	
23		BILBAO	E	02W54 43N16	D 9	10	10.4				A	80	5	0000—2400	
24		CEUTA	E	05W17 35N53	D 9	0.5	−2.9				A	40	4	0000—2400	19
25		ADDIS ABABA	ETH	38E38 08N47	C 9	50	17.4				A	75	3	0400—2100	
26		NAULU REWA	FJI	178E32 18S04	A20	10	10.4				A	60	5	1700—1200	
27	S	LAHTI	FNL	26E09 61N19	D 9	100	23.4				A	200	5	0000—2400	
28	S	ROVANIEMI	FNL	25E43 66N32	D 9	100	23.4				A	200	6	0000—2400	
29		EXETER	G	03W31 50N41	A20	1	0.0				A	36	4	0000—2400	
30		HOO	G	00E33 51N24	A20	0.5	−3.0				A	34	3	0000—2400	
31		REDMOSS	G	02W05 57N07	A20	1	0.4				A	76	5	0000—2400	
32		WOLVERHAMPTON	G	02W08 52N32	A20	0.3	−4.8				A	50	3	0000—2400	
33		FRANCEVILLE	GAB	13E33 01S36	C 9	20	13.6				A	100	5	0400—2400	
34		JAMMU 1	IND	74E49 32N47	A20	300	26.9				A	155	4	0300—0900	25
35		JAMMU 2	IND	74E49 32N47	A20	50	19.1				A	155	4	0900—0300	
36		ROHTAK	IND	76E27 28N56	A20	300	26.9				A	155	3	0300—0900	25
37		UDIPI	IND	74E44 13N27	A20	300	26.9				A	155	3	0300—1000	25
38		SHIRAZ	IRN	52E32 29N36	A20	400	28.1				A	164	3	0100—2200	
39		KOCHI	J	133E36 33N34	A15	10	10.6				A	93	4	0000—2400	
40		MASAN	KOR	128E34 35N10	C10	10	10.6				A	120	4	0000—2400	
41		SAKJU	KRE	125E03 40N23	A16	2	3.0				A	30		2000—1800	
42		AMCHIT	LBN	35E38 34N09	A20	100	20.6				A	120	4	0300—2400	5/ARS 24
43		GREENVILLE	LBR	09W02 05N01	A20	10	10.4				A	76	5	0500—2400	
44		PT MONIZ 2	MDR	16W11 32N50	A20	1	0.4				A	60	4	0000—2400	
45	S	ALTAI	MNG	96E10 46N30	A18	25	17.4				A	180	5	2200—1500	
46	S	SAIN SHANDA	MNG	110E05 44N50	A18	25	14.6				A	120	4	2200—1500	
47	S	TCHOIBOLSAN	MNG	114E30 48N05	A18	25	14.6				A	120	4	2200—1500	
48	S	TSETSERLIG	MNG	101E10 47N30	A18	25	17.4				A	180	5	2200—1500	
49	S	ULAN BATOR	MNG	107E00 47N55	A18	60	21.2				A	180	4	2200—1500	
50		GOMBE	NIG	11E05 10N20	C 9	50	17.6				A	100	4	0500—2300	
51		DUNEDIN	NZL	170E36 45S53	A20	10	12.1				A	150	4	0000—2400	
52		CALOOCAN CITY	PHL	120E59 14N38	A 9	10	10.4				A	75	3	0000—2400	
53		SINGAPORE 1	SNG	103E42 01N20	A20	50	17.4				A	75	4	0000—2400	
54		LARGEAU FAYA	TCD	19E05 17N58	A 9	10	12.1				A			0400—2300	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	990		SONGEA	TGK	35E40 10S40	A 9	100	22.1				A	133	4	0300—2100	
2	(52)		SOKODE	TGO	01E08 08N59	A20	30	15.2				A	75	5	0000—2400	
3			N RATCHASIMA	THA	102E05 14N58	A20	10	10.4				A	79	2	0000—2400	
4			YERKESIK	TUR	28E22 37N13	D 9	100	22.1				A	150	4	0200—2300	
5		S	KARTALY	URS	60E13 52N40	A18	5	7.0				A	220	4	0000—2400	
6		S	ZLATOUST	URS	59E37 55N12	A18	5	7.0				A	220	4	0000—2400	
7			FOCA	YUG	18E50 43N29	D 9	1	0.4				A	50	4	0800—1500	7
8			NOVI MAROF	YUG	16E30 46N15	D 9	0.1	−9.6				A	50	3	0800—1500	7
9			POZAREVAC	YUG	21E11 44N37	D 9	1	0.4				A	45	4	0800—1500	7
10			ZUPANJA	YUG	18E42 45N04	D 9	1	0.4				A	50	3	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	999		JALALABAD	AFG	70E25 34N25	C 9	20	13.4				A	60	4	0100—2000	
2	(53)		V CISNEROS	AOE	16W00 23N40	A20	100	20.4				A	50	4	0000—2400	11/E
3			BROKEN HLL NSW	AUS	141E29 31S56	A20	5					B		2	1900—1400	
4			NOWRA NSW	AUS	150E32 34S53	A20	5					B		3	1900—1400	
5			THAKURGAON	BGD	88E26 26N02	A20	2	3.6				A	122	3	0000—1800	
6			GUANGZHOU	CHN	113E14 23N11	A20	1	0.4				A	70	4	2000—1800	
7			GUIYANG	CHN	106E36 26N25	A20	5	7.4				A	70	5	2000—1800	
8		S	HABAHE	CHN	87E03 48N04	A20	10	10.4				A	70	4	2000—1800	
9		S	HENGCHUN	CHN	120E43 22N01	A20	100	23.0	0	100—260	10.0	B		5	2000—1800	
10		S	TAXKORGAN	CHN	75E08 37N42	A20	10	11.0	100	210—290	7.0	B		4	2000—1800	
11		S	URUMQI SHI	CHN	87E30 43N35	A20	100	20.0	120	260—340	10.0	B		4	2000—1800	
12		S	XINZHU	CHN	120E58 24N48	A20	100	22.1				A	140	5	2000—1800	
13			YAOUNDE	CME	11E32 03N51	C 9	100	22.1				A	150	5	0500—2300	
14		S	HOYERSWERDA	DDR	14E17 51N25	D 9	20	13.6				A	105	4	0000—2400	
15		S	SCHWERIN	DDR	11E31 53N23	D 9	20	13.4				A	50	4	0000—2400	
16		S	WACHENBRUNN	DDR	10E30 50N29	D 9	20	13.4				A	50	4	0000—2400	
17			FAREHAM	G	01W13 50N51	A20	1	0.0				A	38	4	0000—2400	
18			NOTTINGHAM	G	01W15 52N57	A20	0.3	−5.0	100			B		3	0000—2400	
19		S	C VATICANO	I	15E51 38N37	D 9	50	17.6				A	120	2	0000—2400	
20		S	PERUGIA	I	12E23 43N06	D 9	25	14.6				A	90	5	0000—2400	
21		S	SALENTO	I	18E17 39N55	D 9	10	10.6				A	117	4	0000—2400	
22		S	TORINO	I	07E44 45N02	D 9	200	25.1				A	150	4	0000—2400	
23		S	VENOSA	I	15E50 40N58	D 9	10	10.4				A	75	5	0000—2400	
24			ADILABAD	IND	78E30 19N48	A20	300	26.9				A	150	3	0300—1000	25
25			ALMORA 1	IND	79E38 29N35	A20	20	15.1				A	150	4	0300—0900	25
26			ALMORA 2	IND	79E38 29N35	A20	5	9.1				A	150	4	0900—0300	
27			COIMBATORE 1	IND	77E06 11N00	A20	20	15.1				A	150	4	0300—1000	25
28			COIMBATORE 2	IND	77E06 11N00	A20	10	12.1				A	150	4	1000—0300	
29			PASIGHAT	IND	95E20 28N06	A20	300	26.9				A	150	4	0300—0900	25
30			DJAKARTA	INS	106E53 06S14	A18	300	26.9				A	150	5	2200—1700	
31			BANEH	IRN	45E53 36N00	A20	20	13.6				A	105	3	0200—2100	
32			BET SHEAN	ISR	35E30 32N30	D 9	10	10.4				A	50	4	0000—2400	33
33			HACHINOHE	J	141E27 40N31	A15	1	0.6				A	108	5	0000—2400	
34			HAMAMATSU	J	137E46 34N40	A15	1	0.6				A	106	4	0000—2400	
35			ITOIGAWA	J	137E52 37N03	A15	0.1	−9.6				A	50	5	0000—2400	
36			KOMAGANE	J	137E56 35N43	A15	0.1	−9.6				A	71	5	0000—2400	
37			MINAMATA	J	130E18 32N20	A15	1	0.4				A	50	5	0000—2400	
38			MIYAZU	J	135E12 35N32	A15	0.1	−9.6				A	71	5	0000—2400	
39			NAKAMURA	J	132E55 32N59	A15	1	0.6				A	105	5	0000—2400	
40			ONOMICHI	J	133E11 34N23	A15	1	0.6				A	110	5	0000—2400	
41			TSUWANO	J	131E46 34N27	A15	0.1	−9.6				A	47	5	0000—2400	
42			KWANGJU	KOR	126E54 35N11	C10	10	10.6				A	120	4	0000—2400	
43			HAMHEUNG	KRE	127E39 39N56	A16	250	29.0				B		6	2000—1000	
44			HAMHEUNG	KRE	127E39 39N56	A16	125	26.0				B		6	1000—1800	
45			DIEGO SUAREZ	MDG	49E08 12S36	C 9	5	7.0				A	252	4	0300—2000	
46			DELIMARA	MLT	14E34 35N49	D 9	600	35.0	340	80—250	8.0	B		4	0000—2400	
47		S	HAAST	NZL	169E02 43S49	A20	2	3.4				A	50	6	0000—2400	
48		S	REEFTON	NZL	171E51 42S05	A20	2	3.4				A	50	6	0000—2400	
49			PAPEETE 2	OCE	149W29 17S30	A20	20	13.6				A	100	6	0000—2400	
50			BAGUIO CITY	PHL	120E35 16N24	C 9	5	7.4				A	75	3	2100—1600	
51			BISLIG SURIGAO	PHL	126E21 08N11	C 9	1	0.4				A	75	3	2100—1600	
52			CEBU CITY	PHL	123E53 10N18	C 9	5	7.4				A	75	3	2100—1600	
53			AL KHAISAH	QAT	51E25 25N24	C 9	10	10.0				A	50	5	1400—2200	24
54			KABALE	UGA	29E55 01S15	C 9	100	20.4				A	75	4	0300—2100	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	999	BIROBIDJAN	URS	133E00 49N16	A16	25	14.0				A	220	4	0000—2400	
2	(53)	KICHINIOV	URS	28E30 47N01	A16	500	27.0				A	220	4	0000—2400	
3		KIRENSK	URS	108E06 57N47	A18	50	17.0				A	220	4	0000—2400	
4		TSELINOGRAD	URŚ	71E24 49N08	A16	30	14.8				A	220	4	0000—2400	
5		HODEIDAH	YEM	42E55 14N58	C 9	500	34.0	290	10—210	12.0	B		3	0300—2200	24
6		MPIKA	ZMB	31E25 11S50	A20	10	12.1				A	167	4	0200—2100	

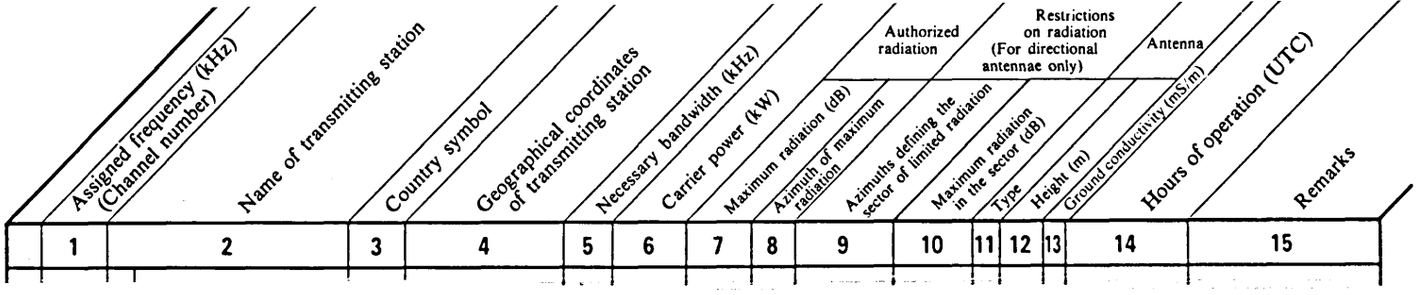
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1008 KHZ (54)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1008		CANBERRA ACT	AUS	149E07 35S13	A20	0.3	−5.0				A	30	3	1900−1400	
2	(54)		GERALDTON WA	AUS	114E37 28S44	A20	2	3.4				A	54	3	1900−1400	
3			IPSWICH QLD	AUS	153E14 27S23	A20	5					B		3	0000−2400	
4			LAUNCESTON TAS	AUS	147E13 41S27	A20	5					B		4	0000−2400	
5		S	KLIMOVITCHI	BLR	32E00 53N36	A18	5	10.4				A	190	4	0000−2400	
6		S	MOZYR	BLR	29E25 52N01	A18	50	22.0	115	200−290	6.0	B		4	0000−2400	
7		S	SLONIM	BLR	25E20 53N03	A16	50	22.0	340			B		4	0400−1600	7
8		S	SLONIM	BLR	25E20 53N03	A16	25	19.0	115	200−290	3.0	B		4	1600−0400	
9		S	UCHATCHI	BLR	28E30 55N00	A16	50	22.0	115	200−290	6.0	B		4	0000−2400	
10		S	FENG XIAN	CHN	106E30 33N55	A20	10	10.4				A	70	4	2000−1800	
11		S	FU XIAN 1	CHN	109E21 35N59	A20	100	22.1				A	140	4	2000−1800	
12		S	SHANG XIAN	CHN	109E53 33N52	A20	40	16.4				A	70	4	2000−1800	
13		S	ZICHANG	CHN	109E40 37N09	A20	10	10.4				A	70	4	2000−1800	
14			LAS PALMAS	CNR	15W24 28N00	D 9	10	10.4				A	50	4	0000−2400	
15		S	ASSWAN	EGY	32E57 24N04	D 9	10	10.6				A	100	3	0000−2400	24
16		S	ASYUT	EGY	31E04 27N11	D 9	10	10.6				A	100	3	0000−2400	24
17		S	KENA	EGY	32E43 26N10	D 9	10	10.6				A	100	3	0000−2400	24
18			KERKYRA	GRC	19E55 39N37	C 9	50	19.0	150	300−350	7.0	B		3	0400−2400	
19			PITA	GUI	12W15 11S09	C 9	20	13.4				A	52	4	0000−2400	
20			FLEVOLAND	HOL	05E26 52N20	D 9	500	30.4				A	165	4	0000−2400	
21			BOBO DIOULASSO	HVO	04W17 11N10	A20	100	22.1				A	149	4	0000−2400	
22			CALCUTTA	IND	88E23 22N36	A20	200	25.1				A	150	3	0300−0900	25
23			CALCUTTA	IND	88E23 22N36	A20	100	22.1				A	150	3	0900−0300	
24			KANPUR	IND	80E19 26N28	A20	300	26.9				A	150	3	0300−0900	25
25			KAVARATHY I	IND	72E42 10N36	A20	300	26.9				A	150	4	0300−1000	25
26			MADIUN	INS	111E31 07S36	A18	10	10.6				A	84	4	2200−1700	
27			SEMNAN	IRN	53E23 35N33	A20	20	13.4				A	74	3	0200−2100	
28			OSAKA	J	135E26 34N31	A15	50	20.4				A	171	4	0000−2400	
29			SOGCHO	KOR	128E39 38N05	C10	50	17.6				A	100	5	0000−2400	
30			SOGCHO	KOR	128E39 38N05	C10	50	21.0	195	40−100	2.0	B		5	0000−2400	
31			SOGCHO	KOR	128E39 38N05	C10	50	21.0	315			B				
32			SONGWON	KRE	125E36 40N22	A16	1	0.0				A	30		2000−1800	
33			MACAU	MAC	113E33 22N12	A20	1	0.4				A	70	2	2200−1600	
34			MALACCA	MLA	102E15 02N14	A20	20	13.4				A	61	5	2200−1700	
35			LOUREN MARQUES	MOZ	32E36 25S58	C10	250	24.6	20			B		4	0400−2200	
36			KSAR ES SOUK	MRC	04W24 31N55	A18	50	19.1				A	150	5	0600−2400	24
37			KONTAGORA	NIG	05E29 10N30	C 9	50	17.4				A	75	4	0500−2300	
38			PAENGAROA	NZL	176E25 37S49	A20	10	12.1				A	150	3	0000−2400	
39			HYDERABAD	PAK	68E15 25N25	A20	120	21.4				A	121	3	0000−2000	
40			LUCENA CITY	PHL	121E39 13N55	C 9	1	0.6				A	92	3	2100−1600	
41			ZAMBOANGA CY 1	PHL	122E04 06N56	D 9	100	23.0	90	15−180	3.0	B		3	2100−1600	
42			TABORA	TGK	32E40 05S00	C 9	50	19.1				A	123	4	0300−2100	
43			BANGKOK	THA	100E30 13N46	A20	10	10.4				A	55	2	0000−2400	
44			MAGADAN	URS	151E50 59N40	C 9	50	20.4				A	190	5	0000−2400	
45			SEMIPALATINSK	URS	80E15 50N25	A18	150	25.2				A	190	4	0000−2400	
46			USSURIISK	URS	132E00 43N47	A18	50	20.4				A	190	4	0000−2400	
47			TAIZ 1	YEM	44E05 13N32	C 9	60	18.2				A	60	3	0300−2200	24
48			ALEKSINAC	YUG	21E43 43N32	D 9	200	26.0	130	270−350	8.0	B		4	0000−2400	
49			BANDUNDU	ZAI	17E26 03S25	C 9	50	17.4				A	70	7	0000−2400	

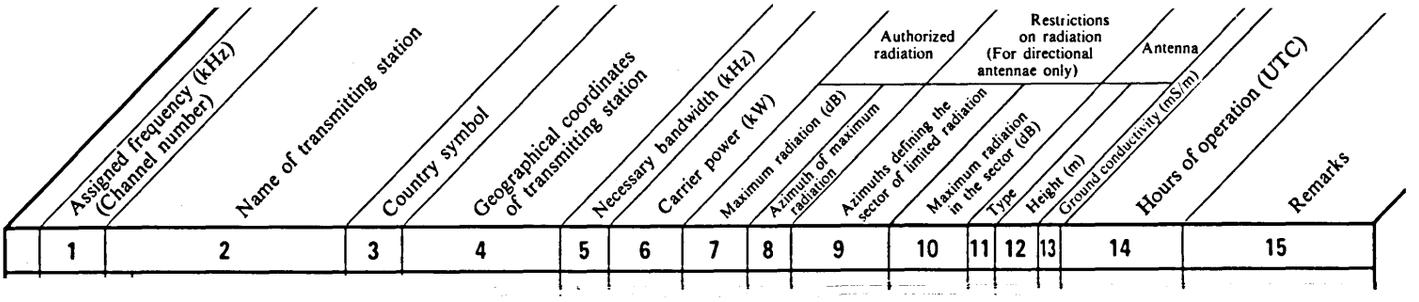
1	Assigned frequency (kHz) (Channel number)	2	Name of transmitting station	3	Country symbol	4	Geographical coordinates of transmitting station	5	Necessary bandwidth (kHz)	6	Carrier power (kW)	Authorized radiation	7	Maximum radiation (dB)	8	Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only)	9	Azimuths defining the sector of limited radiation	10	Maximum radiation in the sector (dB)	Antenna	11	Type	12	Height (m)	13	Ground conductivity (mS/m)	14	Hours of operation (UTC)	15	Remarks
	1		2		3		4		5		6		7		8			9		10			11		12		13		14		15	

1	2		3	4	5	6	7	8	9	10	11	12	13	14	15
1	1017	GARDIZ	AFG	69E15 33N38	C 9	5	7.4				A	60	4	0100—2000	
2	(55)	BATNA	ALG	06E10 35N38	D 9	2	3.4				A	45	4	0600—2400	24
3		ABQAIQ	ARS	49E40 25N57	A20	0.1	−10.0				A	15	4	0100—2400	24
4		HAIL	ARS	41E45 27N30	C 9	20	13.6				A	120	4	0000—2400	24
5		SYDNEY NSW	AUS	151E04 33S50	A20	5	9.1				A	147	4	0000—2400	
6		WYNDHAM WA	AUS	128E06 15S29	A20	0.1	−10.0				A	21	2	2200—1600	
7	S	BAOAN	CHN	114E05 22N38	A20	10	10.4				A	70	4	2000—1800	
8		CHANGCHUN	CHN	125E24 43N48	A20	100	22.1				A	140	4	2000—1800	
9	S	DARLA	CHN	99E33 33N42	A20	10	10.4				A	70	5	2000—1800	
10	S	GANGCA	CHN	100E10 37N20	A20	20	13.4				A	70	5	2000—1800	
11	S	LUFENG	CHN	115E38 22N57	A20	20	13.4				A	70	4	2000—1800	
12	S	MAOMING	CHN	110E51 21N56	A20	50	17.4				A	70	4	2000—1800	
13	S	MEI XIAN	CHN	116E00 24N20	A20	100	20.0	230	350—110	17.0	B		4	2000—1800	
14	S	SHAOGUAN	CHN	113E32 24N47	A20	10	10.4				A	70	4	2000—1800	
15	S	TONGREN 1	CHN	102E01 35N31	A20	10	10.4				A	70	5	2000—1800	
16	S	ZHAOQING	CHN	112E27 23N03	A20	20	13.4				A	70	4	2000—1800	
17		OUESSO	COG	16E20 01N40	A20	30	15.4				A	118	5	0000—2400	
18		WOLFSHEIM	D	08E03 49N53	D 9	600	29.9				A	150	4	0000—2400	
19		DESSIE	ETH	39E37 11N00	C 9	10	10.4				A	70	3	0400—2100	
20		GENOVA	I	08E54 44N25	D 9	20	13.6				A	102	5	0400—1700	7
21		VENEZIA	I	12E18 45N29	D 9	25	14.6				A	118	4	0400—1700	7
22		AIJAL	IND	92E43 23N43	A20	300	26.9				A	150	4	0300—0900	25
23		CHHINDWARA	IND	78E55 22N05	A20	300	26.9				A	150	4	0300—0900	25
24		DELHI	IND	77E12 28N38	A20	20	15.1				A	150	3	0000—2400	
25		MADURAI	IND	78E15 09N25	A20	300	26.9				A	150	3	0300—1000	25
26		KUPANG	INS	123E38 10S13	A18	2	3.4				A	74	7	2100—1600	
27		ZAHEDAN	IRN	60E53 29N28	A20	10	10.4				A	74	3	0200—2200	
28		FUKUOKA	J	130E27 33N32	A15	50	19.1				A	157	4	0000—2400	
29		NAHA	J	127E41 26N14	A15	1	0.4				A	68	4	0000—2400	
30		NYERI	KEN	36E55 00S27	C 9	20	13.6				A	100	4	0000—2400	
31		ANDONG	KOR	128E41 36N34	C10	10	10.6				A	109	6	0000—2400	
32		SONGCHON	KRE	126E13 39N15	A16	1	0.0				A	30		2000—1800	
33		SANTANA 1	MDR	16W54 32N47	A20	1	0.4				A	60	4	0000—2400	
34		SEGAMAT	MLA	102E52 02N29	A20	100	22.1				A	150	5	2200—1700	
35		TETOUAN	MRC	05W23 35N36	A18	20	15.1				A	165	5	0500—2400	24
36		YOLA	NIG	12E39 09N12	C 9	10	10.4				A	70	4	0400—2400	
37		DAGUPAN CITY	PHL	120E20 16N02	C 9	5	7.6				A	91	3	2100—1600	
38		DAVAO CITY	PHL	125E36 07N03	C 9	5	7.6				A	91	3	2100—1600	
39		ILOILO CITY	PHL	122E33 10N41	C 9	5	7.6				A	91	3	2100—1600	
40		SURIGAO	PHL	125E29 09N47	C 9	1	0.6				A	91	3	2100—1600	
41		SEDHIOU	SEN	15W32 12N42	C 9	20	13.4				A	50	5	0600—2400	
42	S	BRATISLAVA M	TCH	17E10 48N10	A20	14	11.9				A	60	4	0500—1700	
43	S	HRADEC KRALOVE	TCH	15E50 50N14	A20	14	11.9				A	60	4	0500—1700	
44	S	KOSICE	TCH	21E15 48N42	A20	14	11.9				A	60	5	0500—1700	
45	S	NITRA	TCH	18E05 48N20	C 9	50	17.4				A	100	4	0500—1700	
46	S	RIM SOBOTA	TCH	20E00 48N23	A20	30	15.4				A	100	5	0500—1700	
47		KANDE	TGO	01E10 10N00	A20	10	10.4				A	75	4	0000—2400	
48		NUKUALOFA	TON	175W10 21S08	C10	10	10.4				A	61	2	1800—1000	
49		ISTANBUL	TUR	28E41 40N21	D 9	1200	32.9				A	153	3	0200—2300	
50		RUBTSOVSK	URS	82E13 51N08	A18	50	20.4				A	190	4	0000—2400	
51		CAZIN	YUG	15E56 44N58	D 9	1	0.6				A	50	4	0800—1500	7
52		PETAUKE	ZMB	31E15 14S15	A20	10	12.1				A	130	4	0200—2100	



1	2		3	4	5	6	7	8	9	10	11	12	13	14	15
1	1026	LASHKAR GAH	AFG	64E20 31N35	A 9	10	10.4				A	60	4	0100—2000	
2	(56)	LUANDA	AGL	13E49 08S48	A20	5	7.4				A	67	3	0000—2400	
3		HASSI MESSAOUD	ALG	06E09 31N40	D 9	9	9.9				A	73		0600—2400	24
4		MELBOURNE VIC	AUS	145E06 37S44	A20	5	9.1				A	132	2	0000—2400	
5		PT HEDLAND WA	AUS	118E35 20S18	A20	5	7.4				A	67	5	2100—1600	
6		ACHENKIRCH	AUT	11E43 47N32	D 9	0.1	−10.0				A	15	6	0000—2400	
7	S	DORNBIRNLAUTER	AUT	09E42 47N27	D 9	50	17.6				A	116	4	0700—1500	2/0110/3103
8	S	DORNBIRNLAUTER	AUT	09E42 47N27	D 9	50	17.6				A	116		0500—1700	2/0104/3009
9	S	DORNBIRNLAUTER	AUT	09E42 47N27	D 9	50	17.6				A	116	4	1500—0700	2/0110/3103
10	S	DORNBIRNLAUTER	AUT	09E42 47N27	D 9	50	17.6				A	116		1700—0500	2/0104/3009
11	S	GRAZ DOBL	AUT	15E23 46N57	D 9	300	26.9				A	156	4	0700—1500	2/0110/3103
12	S	GRAZ DOBL	AUT	15E23 46N57	D 9	300	26.9				A	156		0500—1700	2/0104/3009
13	S	GRAZ DOBL	AUT	15E23 46N57	D 9	200	25.0		110—150	22.0	B		4	1500—0700	2/0110/3103
14	S	GRAZ DOBL	AUT	15E23 46N57	D 9	200	25.0				B			1700—0500	2/0104/3009
15		GREIFENBURG	AUT	13E10 46N45	D 9	0.1	−10.0				A	15	6	0000—2400	
16		GROSS ARL	AUT	13E12 47N14	D 9	0.1	−10.0				A	15	6	0000—2400	
17		KAPPL	AUT	10E23 47N04	D 9	0.1	−10.0				A	15	6	0000—2400	
18		KITZBUEHEL	AUT	12E24 47N27	D 9	0.1	−10.0				A	15	6	0000—2400	
19	S	LINZ KRONSTORF	AUT	14E27 48N10	D 9	300	25.9				A	137	4	0700—1500	2/0110/3103
20	S	LINZ KRONSTORF	AUT	14E27 48N10	D 9	300	25.9				A	137		0500—1700	2/0104/3009
21	S	LINZ KRONSTORF	AUT	14E27 48N10	D 9	200	24.0		110—150	21.0	B		4	1500—0700	2/0110/3103
22	S	LINZ KRONSTORF	AUT	14E27 48N10	D 9	200	24.0				B			1700—0500	2/0104/3009
23	S	MARIA PFARR	AUT	13E45 47N09	D 9	10	10.6				A	105	6	0700—1500	2/0110/3103
24	S	MARIA PFARR	AUT	13E45 47N09	D 9	10	10.6				A	105		0500—1700	2/0104/3009
25	S	MARIA PFARR	AUT	13E45 47N09	D 9	10	10.6				A	105	6	1500—0700	2/0110/3103
26	S	MARIA PFARR	AUT	13E45 47N09	D 9	10	10.6				A	105		1700—0500	2/0104/3009
27		MUEHLBACH HKG	AUT	13E07 47N22	D 9	0.1	−10.0				A	15	6	0000—2400	
28		NAUDERS	AUT	10E31 46N54	D 9	0.1	−10.0				A	15	6	0000—2400	
29		NEUKIRCHEN GRV	AUT	12E17 47N15	D 9	0.1	−10.0				A	15	6	0000—2400	
30		OBERDRAUBURG	AUT	12E59 46N46	D 9	0.1	−10.0				A	15	6	0000—2400	
31		OETZ	AUT	10E54 47N12	D 9	0.1	−10.0				A	15	6	0000—2400	
32		PRUTZ	AUT	10E40 47N05	D 9	0.1	−10.0				A	15	6	0000—2400	
33		RADENTHEIN	AUT	13E40 46N49	D 9	0.1	−10.0				A	15	6	0000—2400	
34		REUTTE	AUT	10E43 47N29	D 9	0.1	−10.0				A	15	6	0000—2400	
35		S LAMBRECHT	AUT	14E18 47N04	D 9	0.1	−10.0				A	15	6	0000—2400	
36		SAALFELDEN	AUT	12E51 47N26	D 9	0.1	−10.0				A	15	6	0000—2400	
37		SCHARNITZ	AUT	11E16 47N23	D 9	0.1	−10.0				A	15	6	0000—2400	
38		SILLIAN	AUT	12E25 46N45	D 9	0.1	−10.0				A	15	6	0000—2400	
39		ZELL AM ZILLER	AUT	11E53 47N14	D 9	0.1	−10.0				A	15	6	0000—2400	
40	S	BREST	BLR	23E54 52N18	A20	5	12.0	110	190—300	0.0	B		4	0000—2400	
41	S	GRODNO	BLR	24E00 53N54	A20	5	12.0	110	190—300	0.0	B		4	0000—2400	
42	S	PINSK	BLR	26E10 52N10	A20	5	12.0	110	190—300	0.0	B		4	0000—2400	
43		BEIJING	CHN	116E27 39N57	A20	20	13.4				A	70	4	2000—1800	
44	S	JIANHE	CHN	108E45 26N39	A20	50	17.4				A	70	5	2000—1800	
45	S	MEITAN	CHN	107E29 27N46	A20	10	10.4				A	70	5	2000—1800	
46	S	NAYONG	CHN	105E15 26N56	A20	10	10.4				A	70	5	2000—1800	
47	S	ZHENFENG	CHN	105E40 25N14	A20	50	17.4				A	70	5	2000—1800	
48		GALLE	CLN	80E12 06N05	C10	10	10.4				A	50	5	0000—1800	
49		ALICANTE	E	00W33 38N19	D 9	3	5.1				A	50	4	0000—2400	
50		REUS	E	01E04 41N09	D 9	2	3.4				A	50	5	0000—2400	
51		VIGO	E	08W43 42N14	D 9	3	5.1				A	60	5	0000—2400	
52		BELFAST	G	05W52 54N33	A20	1	1.0	300			B		3	0000—2400	
53		CAMBRIDGE	G	00E10 52N14	A20	0.5	−3.0				A	61	3	0000—2400	
54		LA CHASSE	G	02W11 49N14	A20	1	−3.0				A	68	4	0000—2400	

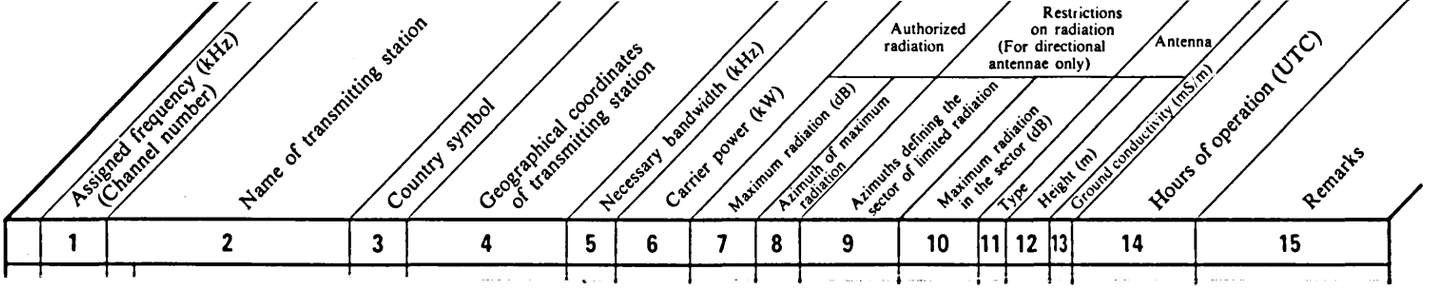
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation; Azimuths defining the sector of limited radiation; Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1026		ASUANSI	GHA	01W15 05N25	C 9	20	13.0				A	250	4	0500—2300	
2	(56)		ALLAHABAD	IND	81E54 25N28	A20	20	15.1				A	150	3	0000—2400	
3			DHARMSALA	IND	76E15 32N12	A20	300	26.9				A	150	4	0300—0900	25
4			MERCARA	IND	75E42 12N24	A20	300	26.9				A	150	4	0300—1000	25
5			ROURKELA	IND	85E00 22N12	A20	300	26.9				A	150	4	0300—0900	25
6			CHALUS	IRN	51E25 36N40	A20	10	10.4				A	73	2	0300—1400	18/ISR
7			TABRIZ	IRN	46E15 38N08	A20	100	22.1				A	147	2	0100—2200	
8			TEL AVIV 1	ISR	34E50 31N50	D 9	200	25.0		290—340	19.0	B		3	0000—2400	18/IRN 33
9			AKUNE	J	130E12 32N01	A15	0.1	−9.6				A	67	5	0000—2400	
10			ENGARU	J	143E31 44N03	A15	0.1	−9.6				A	71	5	0000—2400	
11			ESASHI	J	140E08 41N51	A15	0.1	−9.6				A	47	5	0000—2400	
12			FUCHU	J	133E15 34N34	A15	0.1	−9.6				A	50	5	0000—2400	
13			FUKUCHIYAMA	J	135E07 35N18	A15	0.1	−9.6				A	67	5	0000—2400	
14			GOTEMBA	J	138E56 35N18	A15	0.1	−9.6				A	50	5	0000—2400	
15			HAMADA	J	132E05 34N54	A15	0.1	−9.6				A	67	5	0000—2400	
16			HITA	J	130E56 33N18	A15	0.1	−9.6				A	47	5	0000—2400	
17			KISOFUKUSHIMA	J	137E42 35N51	A15	0.1	−9.6				A	47	5	0000—2400	
18			KOBAYASHI MIYA	J	130E58 32N00	A15	0.1	−9.6				A	67	5	0000—2400	
19			KOMORO	J	138E26 36N19	A15	0.1	−9.6				A	67	5	0000—2400	
20			KURAYOSHI	J	133E48 35N25	A15	0.1	−9.6				A	47	5	0000—2400	
21			KURE	J	132E36 34N15	A15	0.1	−9.6				A	71	5	0000—2400	
22			KUSHIMA	J	131E14 31N28	A15	0.1	−9.6				A	71	5	0000—2400	
23			MIYAKO	J	141E58 39N38	A15	0.1	−9.6				A	71	5	0000—2400	
24			NAKATOMBETSU	J	142E18 44N58	A15	0.1	−9.6				A	71	5	0000—2400	
25			OFUNATO	J	141E44 39N05	A15	0.1	−9.6				A	67	5	0000—2400	
26			SHIMONOSEKI	J	130E56 33N58	A15	0.1	−9.6				A	67	5	0000—2400	
27			SHINGU	J	136E00 33N43	A15	0.1	−9.6				A	67	5	0000—2400	
28			SUKUMO	J	132E43 32N56	A15	0.1	−9.6				A	71	5	0000—2400	
29			TSURUGA	J	136E03 35N39	A15	0.1	−9.6				A	67	5	0000—2400	
30			YAMANAKA	J	136E22 36N15	A15	0.1	−9.6				A	71	5	0000—2400	
31			YONEZAWA	J	140E06 37N54	A15	0.1	−9.6				A	47	5	0000—2400	
32			MALINDI	KEN	40E05 03S15	C 9	5	7.6				A	100	4	0000—2400	
33			HWACHEON	KOR	127E42 38N05	C10	1	0.4				A	60	6	0000—2400	
34			KEOCHANG	KOR	127E54 35N40	C10	1	2.1				A	120	6	0000—2400	
35			SEOCHEON	KOR	126E43 36N03	C10	1	2.1				A	120	4	0000—2400	
36			VIENTIANE	LAO	102E38 17N59	A15	10	10.4				A	55	5	0500—1500	
37			PERY	MOZ	33E25 19S00	C10	50	17.4				A	73	4	0400—2200	
38			RABAT	MRC	06W55 33N54	A18	5	7.4				A	48	4	0600—2400	24
39			SAFI	MRC	09W10 32N20	A18	1	0.6				A	82	4	0500—2400	24
40			ROSSO	MTN	15W50 16N32	B20	20	15.1				A	146		0600—2400	24
41			HADIJA	NIG	10E10 12N30	C 9	50	17.4				A	75	4	0500—2300	
42		S	KAITAIA	NZL	173E15 35S03	A20	2	3.4				A	50	4	0000—2400	
43		S	WHANGAREI	NZL	174E19 35S41	A20	2	3.4				A	50	4	0000—2400	
44			ILIGAN CITY	PHL	124E15 08N14	C 9	1	0.6				A	91	3	2100—1600	
45			NOVALICHES QC	PHL	121E02 14N42	C 9	10	10.6				A	91	3	2100—1600	
46			PIBOR POST	SDN	33E08 06N49	A20	50	20.4				A	164	3	0400—1500	24
47			HONIARA	SLM	159E58 09S25	A20	5	7.4				A	61	1	1900—1200	
48		S	PHITSANULOK	THA	100E13 16N51	A20	50	17.6				A	88	2	0000—2400	
49		S	YALA	THA	101E04 05N46	A20	10	10.0				A	30	3	0000—2400	
50		S	BEREZNIKI	URS	56E15 59N24	A18	5	10.4				A	190	4	0000—2400	
51		S	NIANDOMA	URS	38E57 61N31	A18	5	10.4				A	190	4	0000—2400	
52			RAITCHIKMINSK	URS	129E30 49N50	A18	50	17.6				A	90	4	0000—2400	
53			TOMSK	URS	85E04 56N30	C10	200	26.4				A	190	4	0000—2400	



1026 KHZ (56)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1026	BAR	YUG	19E06 42N06	D 9	1	0.4				A	25	4	0800—1500	7
2	(56)	KRAGUJEVAC	YUG	20E55 44N01	D 9	10	12.1				A	144	4	0800—1500	
3		NOVA GRADISKA	YUG	17E22 45N15	D 9	1	0.4				A	50	4	0800—1500	7
4		KANANGA	ZAI	22E25 05S54	C 9	10	10.4				A	70	8	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1035		YAMBO	ARS	38E05 24N10	C 9	20	15.1				A	120	3	0400—1400	24
2	(57)		INNISFAIL QLD	AUS	146E00 17S30	A20	10	12.1				A		4	1900—1400	
3			ONSLOW WA	AUS	115E00 22S00	A20	5	7.4				A		3	1900—1400	
4		S	AIHUI	CHN	127E20 50N18	A20	20	13.4				A	70	4	2000—1800	
5		S	BAICHENG	CHN	122E50 45N37	A20	10	10.4				A	70	4	2000—1800	
6		S	BAIRIN ZUOQI	CHN	119E12 43N58	A20	20	13.4				A	70	4	2000—1800	
7		S	BEIAN	CHN	126E40 48N18	A20	1	0.4				A	70	4	2000—1800	
8		S	BENXI SHI	CHN	123E38 41N10	A20	10	10.4				A	70	4	2000—1800	
9		S	BIN XIAN	CHN	118E02 37N22	A20	5	7.4				A	70	4	2000—1800	
10		S	BO XIAN	CHN	115E46 33N53	A20	5	7.4				A	70	4	2000—1800	
11		S	CHANGZHI SHI	CHN	113E06 36N10	A20	20	13.4				A	70	4	2000—1800	
12		S	CHEN XIAN	CHN	113E02 25N48	A20	20	13.4				A	70	4	2000—1800	
13		S	CHIFENG SHI	CHN	118E52 42N18	A20	30	15.2				A	70	4	2000—1800	
14		S	CHU XIAN	CHN	118E18 32N19	A20	10	10.4				A	70	4	2000—1800	
15		S	DATONG SHI	CHN	113E10 40N05	A20	20	13.4				A	70	4	2000—1800	
16		S	DINGXI	CHN	104E30 35N20	A20	5	7.4				A	70	4	2000—1800	
17		S	DUNHUA	CHN	128E13 43N22	A20	5	7.4				A	70	4	2000—1800	
18		S	ENSHI	CHN	109E28 30N17	A20	10	10.4				A	70	4	2000—1800	
19		S	ERGUNE ZUOQI	CHN	121E30 50N50	A20	10	10.4				A	70	4	2000—1800	
20		S	FUSONG	CHN	127E17 42N19	A20	10	10.4				A	70	4	2000—1800	
21		S	GANZHOU	CHN	114E54 25N48	A20	20	13.4				A	70	4	2000—1800	
22		S	GAOXIONG SHI	CHN	120E18 22N36	A20	50	17.4				A	70	5	2000—1800	
23		S	GUANGCHANG	CHN	116E16 26N52	A20	5	7.4				A	70	4	2000—1800	
24		S	HARBIN	CHN	126E52 45N49	A20	20	13.4				A	70	4	2000—1800	
25		S	HUAINAN	CHN	117E00 32N41	A20	5	7.4				A	70	4	2000—1800	
26		S	HUANREN	CHN	125E21 41N15	A20	5	7.4				A	70	4	2000—1800	
27		S	HUHHOT	CHN	111E30 41N12	A20	50	17.4				A	70	4	2000—1800	
28		S	HURE QI	CHN	121E41 42N45	A20	5	7.4				A	70	4	2000—1800	
29		S	JARUD QI	CHN	120E54 44N34	A20	10	10.4				A	70	4	2000—1800	
30		S	JIAMUSI	CHN	130E30 46N40	A20	20	13.4				A	70	4	2000—1800	
31		S	JINGTAI	CHN	104E08 37N06	A20	10	10.4				A	70	4	2000—1800	
32		S	JINING SHI	CHN	116E35 35N28	A20	20	13.4				A	70	4	2000—1800	
33		S	JISHOU	CHN	109E43 28N19	A20	20	13.4				A	70	4	2000—1800	
34		S	JIXI	CHN	130E58 45N18	A20	20	13.4				A	70	4	2000—1800	
35		S	LENGSHUIJIANG	CHN	111E23 27N44	A20	10	10.4				A	70	4	2000—1800	
36		S	LINYI	CHN	118E20 35N04	A20	10	10.4				A	70	4	2000—1800	
37		S	MANZHOULI	CHN	117E30 49N28	A20	20	13.4				A	70	4	2000—1800	
38		S	MOHE	CHN	122E10 53N21	A20	20	13.4				A	70	4	2000—1800	
39		S	NANCHANG SHI	CHN	115E54 28N42	A20	50	17.4				A	70	4	2000—1800	
40		S	NUNGNIN SUM	CHN	118E58 45N40	A20	20	13.4				A	70	4	2000—1800	
41		S	PINGLIANG	CHN	106E38 35N18	A20	5	7.4				A	70	4	2000—1800	
42		S	PINGXIANG 1	CHN	113E52 27N37	A20	10	10.4				A	70	4	2000—1800	
43		S	QIQIHAR	CHN	123E58 47N18	A20	10	10.4				A	70	4	2000—1800	
44		S	RAOHE	CHN	134E00 46N40	A20	20	13.4				A	70	4	2000—1800	
45		S	SHASHI	CHN	112E14 30N18	A20	20	13.4				A	70	4	2000—1800	
46		S	SHIYAN	CHN	110E47 32N36	A20	10	10.4				A	70	4	2000—1800	
47		S	TAIYUAN	CHN	112E33 37N45	A20	50	17.4				A	70	4	2000—1800	
48		S	TAIZHONG SHI	CHN	120E41 24N09	A20	50	17.4				A	70	5	2000—1800	
49		S	TONGLING	CHN	117E47 30N57	A20	5	7.4				A	70	4	2000—1800	
50		S	WANGQING	CHN	129E46 43N18	A20	5	7.4				A	70	4	2000—1800	
51		S	WEIFANG	CHN	119E06 36N43	A20	50	17.4				A	70	4	2000—1800	
52		S	WEIHAI	CHN	122E07 37N31	A20	5	7.4				A	70	4	2000—1800	
53		S	WUDU	CHN	104E55 33N24	A20	5	7.4				A	70	4	2000—1800	
54		S	WUGANG	CHN	110E38 26N43	A20	20	13.4				A	70	4	2000—1800	



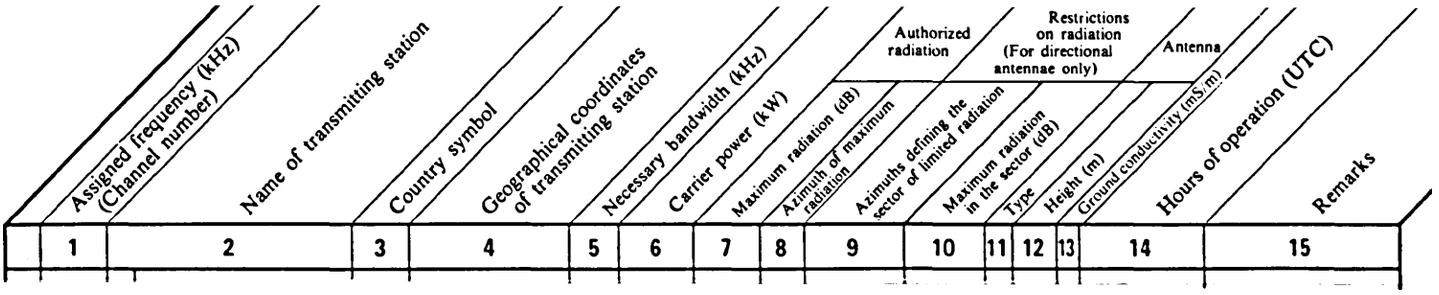
1035 KHZ (57)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1035	S	YINGKOU SHI	CHN	122E12 40N41	A20	20	13.4				A	70	4	2000—1800	
2	(57)	S	YIYANG SHI	CHN	112E21 28N36	A20	10	10.4				A	70	4	2000—1800	
3		S	YONGCHANG	CHN	101E58 38N15	A20	10	10.4				A	70	4	2000—1800	
4		S	YUEYANG	CHN	113E10 29N17	A20	10	10.4				A	70	4	2000—1800	
5		S	YUMEN SHI	CHN	97E20 39N42	A20	50	17.4				A	70	4	2000—1800	
6		S	YUNCHENG	CHN	111E00 34N57	A20	20	13.4				A	70	4	2000—1800	
7		S	ZAOYANG	CHN	112E45 32N08	A20	10	10.4				A	70	4	2000—1800	
8			MATRUH	EGY	27E09 31N19	D 9	1000	38.0	270	315—330	20.0	B		3	0000—2400	24
9			MATRUH	EGY	27E09 31N19	D 9	1000	38.0		135—145	25.0	B				
10			ABERDEEN	G	02W04 57N07	A20	1	−1.9				B		5	0000—2400	
11			AYR	G	04W35 55N34	A20	0.5	−3.8				B		4	0000—2400	
12			HOO	G	00E33 51N24	A20	1	0.0				A	30	3	0000—2400	
13			SHEFFIELD	G	01W29 53N21	A20	1	0.0				A	18	4	0000—2400	
14			BISSAU	GNB	15W35 11N51	A20	5	7.4				A	75	3	0000—2400	
15			SGRAVENHAGE	HOL	04E20 52N05	D 9	2	3.4				A	40	4	0000—2400	
16		S	CATANZARO	I	16E35 38N54	D 9	10	10.4				A	72	5	0000—2400	
17		S	FIRENZE	I	11E16 43N49	D 9	10	10.4				A	80	4	0000—2400	
18		S	NAPOLI	I	14E12 40N52	D 9	30	15.4				A	118	5	0000—2400	
19		S	PESCARA	I	14E15 42N26	D 9	10	10.6				A	111	4	0000—2400	
20		S	PIANA SIBARI	I	16E27 39N45	D 9	10	10.4				A	72	4	0000—2400	
21		S	SONDRIO	I	09E50 46N10	D 9	2	3.4				A	61	5	0000—2400	
22		S	TRIESTE	I	13E46 45N40	D 9	10	10.4				A	60	4	0000—2400	
23		S	UDINE	I	13E15 46N03	D 9	2	3.6				A	103	5	0000—2400	
24			GAUHATI 1	IND	91E47 26N11	A20	20	15.1				A	145	3	0300—0900	25
25			GAUHATI 2	IND	91E47 26N11	A20	10	12.1				A	145	3	0900—0300	
26			REWA	IND	81E25 24N31	A20	300	26.9				A	145	4	0300—0900	25
27			TIRUCHIRAPALLI	IND	78E46 10N50	A20	300	26.9				A	145	3	0300—1000	25
28			PALU	INS	119E52 00S54	A18	10	10.4				A	73	6	2100—1600	
29			TANDJUNGKARANG	INS	105E18 05S22	A18	5	7.4				A	73	6	2200—1700	
30			YAZD	IRN	54E24 31N54	A20	20	13.4				A	72	3	0100—2200	
31			MIYOSHI	J	132E51 34N48	A15	0.1	−9.6				A	71	5	0000—2400	
32			NIIHAMA	J	133E19 33N58	A15	0.1	−9.6				A	71	5	0000—2400	
33			TAISHO	J	132E59 33N12	A15	0.1	−9.6				A	71	5	0000—2400	
34			TAKAMATSU	J	134E04 34N19	A15	1	0.6				A	109	4	0000—2400	
35			TOYAMA	J	137E14 36N43	A15	1	0.6				A	108	5	0000—2400	
36			TSURUOKA	J	139E52 38N44	A15	1	0.6				A	109	5	0000—2400	
37			YAWATAHAMA	J	132E27 33N28	A15	0.1	−9.6				A	67	5	0000—2400	
38			AMMAN	JOR	35E53 31N54	C 9	10	12.1				A	130	4	0800—1600	24
39			POHANG	KOR	129E22 36N04	A10	10	10.4				A	80	4	0000—2400	
40			PHYHEN	KRE	124E37 40N02	A16	1	0.4				A	50		2000—1800	
41			PENANG	MLA	100E18 05N22	A20	10	10.6				A	95	5	2200—1700	
42			IDOANI	NIG	05E31 07N09	C 9	10	10.6				A	110	4	0400—2400	
43			WELLINGTON	NZL	174E51 41S06	A20	20	15.1				A	120	4	0000—2400	
44			MULTAN	PAK	71E24 30N12	A20	120	22.9				A	121	3	0000—2000	
45			BAGUIO CITY	PHL	120E35 16N24	C 9	10	10.6				A	90	3	2100—1600	
46			CEBU CITY	PHL	123E51 10N15	C 9	1	0.6				A	90	3	2100—1600	
47			GENERAL SANTOS	PHL	125E10 06N06	C 9	5	7.4				A	75	3	2100—1600	
48			LISBOA	POR	08W51 38N54	A20	120	22.9				A	145	3	0000—2400	
49			KIBAHA	TGK	39E00 06S50	C 9	100	20.6				A	105	4	0300—2100	
50			ATAKPAME	TGO	01E10 07N32	A20	20	13.4				A	75	4	0000—2400	
51			BANGKOK	THA	100E35 13N53	A20	20	13.4				A	40	2	0000—2400	
52			KARSIYAKA	TUR	27E03 38N28	D 9	20	13.4				A	72	4	0200—2300	
53			TALLIN	URS	24E46 59N24	A16	500	30.4				A	190	4	0000—2400	
54			SANAA 3	YEM	44E11 15N22	C 9	1000	35.0	150	86—270	20.0	B		5	0300—2200	24

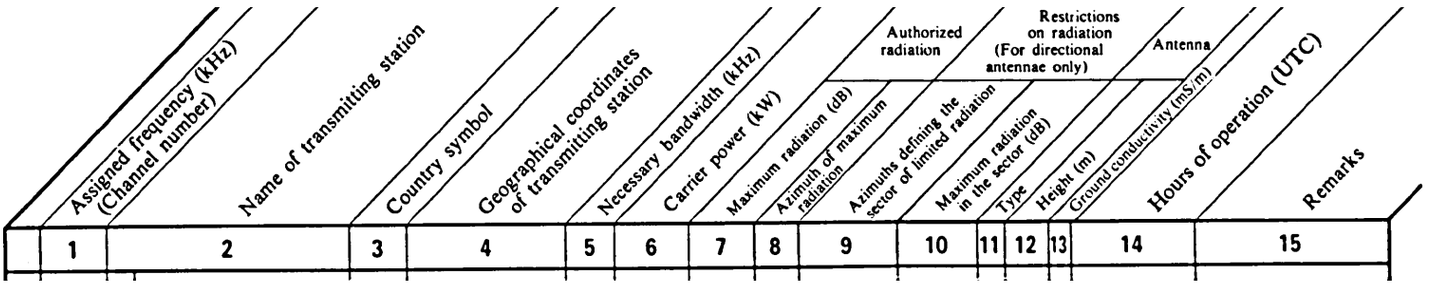
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1035	BOS SAMAC	YUG	18E28 45N04	D 9	0.1	−9.6				A	25	3	0800−1500	7
2	(57)	SRBICA	YUG	20E47 42N43	D 9	5	7.4				A	50	6	0000−2400	
3		KINSHASA	ZAI	15E15 04S20	C 9	1	0.4				A	50	8	0000−2400	
4		LIKASI	ZAI	26E44 10S50	C 9	10	10.4				A	60	8	0000−2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1044		HERAT	AFG	62E12 34N20	C 9	100	20.4				A	75	4	0100—2000	
2	(58)		LUBANGO	AGL	13E30 14S55	A20	10	10.4				A	75	3	0000—2400	
3			DHAHRAN	ARS	50E06 26N18	A20	0.1	—10.0				A	15	3	0100—2400	24
4			SAFANIYA	ARS	48E45 27N59	A20	0.1	—10.0				A	15	4	0100—2400	24
5			CRYSTAL BRK SA	AUS	138E16 33S19	A20	5	9.1				A	153	2	1900—1400	
6			MUSWELLBRK NSW	AUS	150E55 32S14	A20	2					B		4	1900—1400	
7			WEIPA QLD	AUS	141E54 12S39	A20	0.5	—2.6				A				
8			CHANGZHOU	CHN	119E57 31N47	A20	300	26.9				A	140	3	2000—1800	
9		S	FUHAI	CHN	87E45 47N00	A20	1	0.4				A	70	4	2000—1800	
10		S	FUYUN	CHN	89E33 47N00	A20	10	10.4				A	70	4	2000—1800	
11		S	HOTAN	CHN	80E02 37N00	A20	10	10.4				A	70	4	2000—1800	
12		S	KASHI	CHN	76E00 39N25	A20	10	10.4				A	70	4	2000—1800	
13		S	RUOQIANG	CHN	88E10 39N00	A20	10	10.4				A	70	4	2000—1800	
14		S	TACHENG	CHN	83E05 46N45	A20	10	10.4				A	70	4	2000—1800	
15		S	TURPAN	CHN	89E02 42N53	A20	10	10.4				A	70	4	2000—1800	
16		S	XINHE	CHN	82E40 41N25	A20	10	10.4				A	70	4	2000—1800	
17			YANJI SHI	CHN	129E30 42N54	A20	1	0.4				A	60	4	2000—1800	
18		S	YINING SHI	CHN	81E28 43N55	A20	10	10.4				A	70	4	2000—1800	
19		S	YIWU	CHN	94E40 43N20	A20	1	0.4				A	70	4	2000—1800	
20			MAMFE	CME	09E14 05N56	C 9	20	15.1				A	143	4	0500—2300	
21			VASILIKO	CYP	33E20 34N42	C 9	100	20.6				A	100	4	0000—2400	
22			BURG	DDR	11E54 52N17	D 9	1000	30.0				A	210	4	0000—2400	
23			MAKALE	ETH	39E28 13N31	C 9	10	10.0				A	72	3	0400—2100	
24			THESSALONIKI	GRC	22E56 40N30	C 9	150	24.7	255	340—350	15.7	B		4	0400—2400	
25			THESSALONIKI	GRC	22E56 40N30	C 9	150	24.7	75	160—170	15.7	B				
26			BEYLA	GUI	08W38 08N41	C 9	50	17.4				A	70	4	0000—2400	
27			PENG CHAU	HKG	114E02 22N17	A20	10	10.6				A	91	5	0000—2400	
28			BOMBAY 1	IND	72E54 18N53	A20	300	26.9				A	145	3	0300—1000	25
29			BOMBAY 2	IND	72E54 18N53	A20	100	22.1				A	145	3	1000—0300	
30			DHANBAD	IND	86E24 23N48	A20	300	26.9				A	145	3	0300—0900	25
31			RAMPUR	IND	79E04 28N48	A20	300	26.9				A	145	3	0300—0900	25
32			AMBON	INS	128E10 03S41	A18	10	10.4				A	72	4	2000—1500	
33			SIBOLGA	INS	98E48 01N42	A18	10	10.4				A	71	5	2200—1700	
34			VOI	KEN	38E35 03S20	C 9	100	20.6				A	100	4	0000—2400	
35			CHUNCHEON	KOR	127E42 37N52	C10	1	0.0				A	33	6	0000—2400	
36			SIMANGGANG	MLA	111E27 01N14	A20	20	15.1				A	137	5	2200—1600	
37			BEIRA	MOZ	34E44 19S36	C10	100	20.3	340			B		4	0400—2200	
38			SEBAA AIOUN	MRC	05W23 33N53	C 9	300	26.9				A	140	4	0600—2400	24
39			AOUPINIE	NCL	165E16 21S11	A20	10	10.4				A	50	3	0000—2400	
40			DUNEDIN	NZL	170E36 45S53	A20	10	12.1				A	120	4	0000—2400	
41			CATBALOGAN SAM	PHL	124E52 11N46	C 9	1	0.6				A	89	3	2100—1600	
42			DIGOS DAVAO SR	PHL	125E21 06N45	C 9	1	0.6				A	89	3	2100—1600	
43			NAGA CITY	PHL	123E11 13N37	C 9	5	7.6				A	89	3	2100—1600	
44			SURICZAMBALES	PHL	120E14 14N53	C 9	1	0.6				A	89	3	2100—1600	
45			ZAMBOANGA CITY	PHL	122E06 06N56	C 9	5	7.6				A	89	3	2100—1600	
46			ALEPPO 2	SYR	37E08 36N14	A20	20	13.4				A	70	4	0300—2400	
47			MAO	TCD	15E18 14N08	C 9	1	0.4				A			0400—2300	
48			KHON KAEN	THA	102E40 16N02	A20	10	10.4				A	74	3	0000—2400	
49			KAHRAMANMARAS	TUR	36E56 37N35	D 9	50	20.0	295	20— 60	3.0	B		4	0200—2300	
50			KAHRAMANMARAS	TUR	36E56 37N35	D 9	50	20.0		280—290	15.0	B				
51			RUBTSOVSK	URS	82E13 51N08	A18	50	20.4				A	190	4	0000—2400	
52			TBILISI	URS	44E48 41N42	A16	200	26.4				A	190		0000—2400	

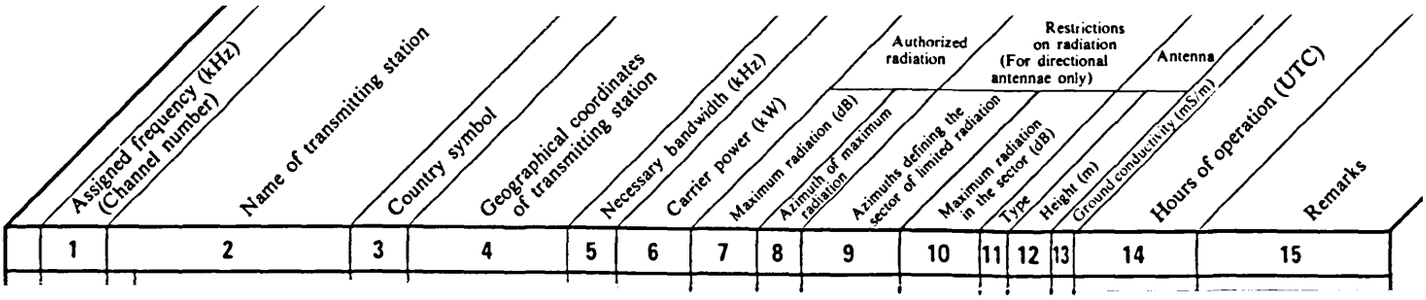


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1044	PODRAV SLATINA	YUG	17E41 45N42	D 9	0.1	−9.6				A	25	3	0800−1500	7
2	(58)	TEMERIN	YUG	19E54 45N23	D 9	0.1	−9.6				A	25	3	0800−1500	7
3		MBUJIMAYI	ZAI	23E10 06S13	C 9	2	3.4				A	70	8	0000−2400	

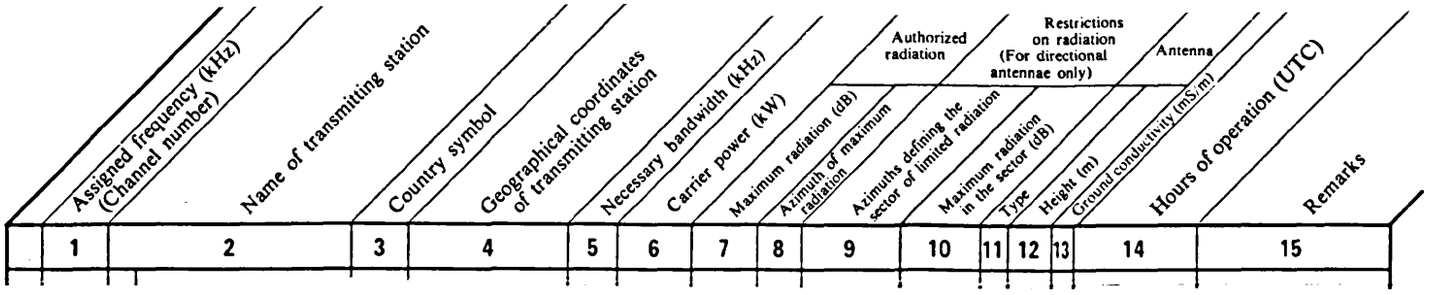


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 053	DHAHRAN	ARS	50E06 26N18	A20	0.1	−10.0				A	15	3	0100−2400	24
(59)	GIZAN	ARS	42E31 16N52	C 9	20	15.1				A	120	4	0000−2400	24
	BRISBANE QLD	AUS	153E00 27S30	A20	5	7.4				A		3	1900−1400	
	CANBERRA ACT	AUS	149E07 35S13	A20	5					B		3	0000−2400	
	KARRATHA WA	AUS	117E00 20S43	A20	10	10.4				A	70	3	2100−1600	
	BAD GOISERN	AUT	13E37 47N38	D 9	0.1	−10.0				A	15	6	0000−2400	
	HOPFGARTEN	AUT	12E10 47N27	D 9	0.1	−10.0				A	15	6	0000−2400	
	OBERWOELZ	AUT	14E17 47N12	D 9	0.1	−10.0				A	15	6	0000−2400	
	PFUNDS	AUT	10E32 46N58	D 9	0.1	−10.0				A	15	6	0000−2400	
	SPITTAL DRAU	AUT	13E29 46N48	D 9	0.1	−10.0				A	15	6	0000−2400	
	WOERGL	AUT	12E04 47N30	D 9	0.1	−10.0				A	15	6	0000−2400	
	MURAMVYA	BDI	30E51 03S28	C 9	10	10.4				A	71	4	0300−2400	
	RANGPUR	BGD	89E00 26N00	A20	10	12.1				A	122	3	0000−1800	
	ANTU	CHN	128E22 42N33	A20	10	10.4				A	70	4	2000−1800	
S	DONGCHUAN	CHN	103E18 26N08	A20	10	10.4				A	70	5	2000−1800	
	JINAN	CHN	116E57 36N43	A20	5	7.4				A	70	4	2000−1800	
S	LIJIANG	CHN	100E15 26N55	A20	20	13.4				A	70	5	2000−1800	
S	LINCANG	CHN	100E02 23N52	A20	20	13.4				A	70	5	2000−1800	
S	LUCHUN	CHN	102E20 23N00	A20	10	10.4				A	70	5	2000−1800	
S	LUXI	CHN	98E34 24N27	A20	20	13.4				A	70	5	2000−1800	
S	QIUBEI	CHN	104E11 24N02	A20	50	17.4				A	70	5	2000−1800	
S	XIAGUAN	CHN	100E13 25N34	A20	10	10.4				A	70	5	2000−1800	
	MOSSENDJO	COG	12E50 03S00	A20	30	15.4				A	114	5	0000−2400	
S	BARNSTAPLE	G	04W07 51N03	A20	1	0.0				A	46	4	0000−2400	
S	BARROW	G	03W12 54N08	A20	2	3.4				A	43	4	0000−2400	
S	BEXHILL	G	00E27 50N50	A20	2	3.4				A	52	4	0000−2400	
S	BRIGHTON	G	00W15 50N50	A20	2	3.4				A	82	4	0000−2400	
S	BURGHEAD	G	03W28 57N42	A20	20	15.2				A	152	4	0000−2400	
S	DROITWICH	G	02W06 52N18	A20	150	27.0	40			B		3	0000−2400	
S	DUNDEE	G	02W55 56N27	A20	1	0.0				A	46	4	0000−2400	
S	ENNISKILLEN	G	07W39 54N22	A20	1	0.1				A	45	4	0000−2400	
S	FOLKESTONE	G	01E13 51N06	A20	1	0.2				A	46	3	0000−2400	
S	HULL	G	00W14 53N43	A20	1	0.0				A	38	3	0000−2400	
S	LONDONDERRY	G	07W22 55N00	C10	1	0.1				A	46	5	0000−2400	
S	POSTWICK	G	01E24 52N38	A20	10	12.5	107			B		3	0000−2400	
S	STAGSHAW	G	02W01 55N02	A20	50	19.0				A	145	4	0000−2400	
S	START POINT	G	03W40 50N14	A20	100	24.0	340			B		4	0000−2400	
	LEH	IND	77E35 34N09	A20	100	22.0	350	255−265	13.0	B		4	0300−0900	25
	LEH	IND	77E35 34N09	A20	100	22.0		65− 95	13.0	B				
	LEH	IND	77E35 34N09	A20	50	19.0	350	255−265	10.0	B		4	0900−0300	
	LEH	IND	77E35 34N09	A20	50	19.0		65− 95	10.0	B				
	DJAJAPURA	INS	140E39 02S37	A18	10	10.4				A	71	6	2000−1500	
	KHORRAMABAD	IRN	48E22 33N29	A20	20	13.6				A	90	3	0100−2200	
	JERUSALEM	ISR	35E13 31N46	D 9	20	15.1				A	140	3	0600−1800	33
	JERUSALEM	ISR	35E13 31N46	D 9	10	12.1				A	140	3	1800−0600	33
	NAGOYA	J	136E44 35N02	A15	50	17.6				A	136	4	0000−2400	
	NYERI	KEN	36E55 00S27	C 9	20	13.6				A	100	4	0000−2400	
	YENSA	KRE	129E01 41N53	A16	1	0.0				A	30		2000−1800	
	TRIPOLI KM8	LBY	13E05 32N52	D 9	50	23.0	175	320− 40	10.0	B		4	0400−2200	24
	MERSING	MLA	103E51 02N25	A20	20	13.6				A	100	5	2200−1700	
	MUEDA	MOZ	39E32 11S39	C10	5	7.4				A	70	4	0400−2200	
	TANGER	MRC	05W50 35N45	A18	600	29.8	180	310− 50	20.0	B		5	0500−0300	18/MTN 24
	TANGER	MRC	05W50 35N45	A18	600	29.8		320− 40	17.8	B				
	NEMA	MTN	07W16 16N36	B20	20	15.1				A	144		0600−2400	18/MRC 24

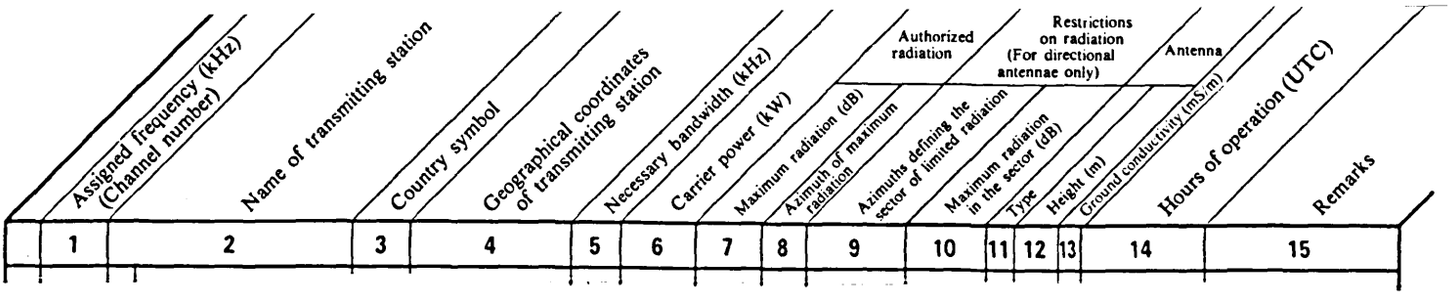
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1053		DOGONDOUTCHI	NGR	04E00 13N40	C 9	10	10.4				A	71	4	0000—2400	
2	(59)		MAIDUGURI	NIG	13E55 11N53	C 9	50	17.6				A	100	4	0500—2400	18/TCD
3			NEW PLYMOUTH	NZL	174E08 39S02	A20	2	3.4				A	50	5	0000—2400	
4			TARAVAO	OCE	149W13 17S46	A20	5	7.4				A	50	4	0000—2400	
5			RAWALPINDI	PAK	73E06 33N37	A20	10	10.4				A	71	3	0000—2000	
6			DIPOLOG ZAM NR	PHL	123E20 08N35	C 9	1	0.6				A	88	3	2100—1600	
7			ILOILO CITY	PHL	122E33 10N41	C 9	1	0.6				A	88	3	2100—1600	
8			LAOAG CITY	PHL	120E36 18N11	C 9	5	7.6				A	88	3	2100—1600	
9		S	IASI	ROU	27E37 47N10	A20	1000	32.0	340	230—270	20.0	B		4	0000—2400	
10		S	IASI	ROU	27E37 47N10	A20	1000	32.0	160	50— 90	20.0	B				
11		S	RESITA	ROU	21E55 45N18	A20	50	19.1				A	130	6	0000—2400	
12			HLATIKULU	SWZ	31E20 27S05	A20	10	12.1				A	120	7	0400—2200	
13			BOUSSO	TCD	16E43 10N30	C 9	10	12.1				A			0400—2300	18/NIG
14			N SITHAMMARAT	THA	99E57 08N29	A20	10	10.4				A	48	3	0000—2400	
15			NAKHON SAWAN	THA	100E07 15N38	A20	10	10.4				A	68	2	0000—2400	
16			KURGAN	URS	65E17 55N29	C10	50	20.4				A	190	4	0000—2400	
17			SVOBODNYI	URS	128E00 51N30	A18	50	20.0	0	140—240	7.0	B		4	0000—2400	



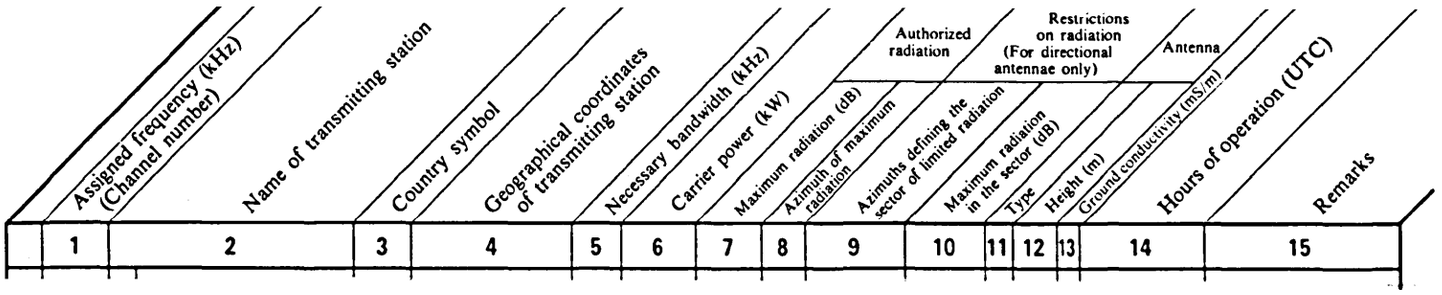
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1062		ABU HADRIYA	ARS	48E59 27N22	A20	0.1	−10.0				A	24	4	0100−2400	24
2	(60)		MAJMAA	ARS	45E20 25N55	C 9	20	15.1				A	120	4	0400−1400	24
3			MAJMAA	ARS	45E20 25N55	C 9	10	12.1				A	120	4	1400−2300	24
4			SYDNEY NSW	AUS	151E04 33S50	A20	5					B		4	0000−2400	
5			THURSDAY IS NT	AUS	142E13 10S35	A20	2	3.4				A	65	3	1900−1400	
6			BOSSANGOA	CAF	17E27 06N30	C 9	30	15.2				A	70	5	0400−2300	
7		S	DONGFANG	CHN	108E36 19N06	A20	50	17.4				A	70	4	2000−1800	
8		S	ENPING	CHN	112E18 22N11	A20	20	13.4				A	70	4	2000−1800	
9		S	GAR	CHN	79E58 32N12	A20	10	10.4				A	70	5	2000−1800	
10		S	GUANGZHOU	CHN	113E14 23N11	A20	100	22.1				A	140	4	2000−1800	
11		S	LHAZE	CHN	87E50 29N05	A20	10	10.4				A	70	5	2000−1800	
12		S	LHORONG	CHN	95E43 30N48	A20	50	17.4				A	70	5	2000−1800	
13		S	LIAN XIAN	CHN	112E23 24N47	A20	50	17.4				A	70	4	2000−1800	
14		S	LONGCHUAN	CHN	115E11 24N04	A20	20	13.4				A	70	4	2000−1800	
15		S	MARKAM	CHN	98E10 29N30	A20	10	10.4				A	70	5	2000−1800	
16		S	NAGQU	CHN	92E02 31N25	A20	50	17.4				A	70	5	2000−1800	
17		S	NANG XIAN	CHN	93E10 29N05	A20	10	10.4				A	70	5	2000−1800	
18		S	QIONGHAI	CHN	110E26 19N15	A20	10	10.4				A	70	4	2000−1800	
19		S	SHANTOU	CHN	116E36 23N30	A20	50	17.4				A	70	4	2000−1800	
20		S	XANZA	CHN	88E42 30N54	A20	50	17.4				A	70	5	2000−1800	
21			YICHUN HLJ	CHN	128E45 47N40	A20	0.1	−10.0				A	50	4	2000−1800	
22		S	ZHONGBA	CHN	84E12 29N39	A20	10	10.4				A	70	5	2000−1800	
23			KALUNDBORG	DNK	11E04 55N40	D 9	250	26.1				A	144	4	0000−2400	
24			ABU ZABAL	EGY	31E22 30N16	D 9	100	23.2				A	175	3	0000−2400	24
25			NEGHELLI	ETH	39E41 05N17	C 9	100	22.1				A	149	3	0400−2300	
26			CONAKRY	GUI	13W39 09N36	C 9	100	20.6				A	90	4	0000−2400	
27		S	ANCONA	I	13E20 43N35	D 9	25	16.0	180	340− 20	10.0	B		4	0000−2400	
28		S	CAGLIARI	I	09E04 39N17	D 9	30	15.4				A	108	3	0000−2400	
29		S	CATANIA	I	15E05 37N32	D 9	2	3.6				A	98	5	0000−2400	
30		S	GORIZIA	I	13E37 45N57	D 9	0.2	−6.6				A	50	5	0000−2400	
31		S	GROSSETO	I	11E07 42N45	D 9	1	0.4				A	50	5	0000−2400	
32		S	LA SPEZIA	I	09E49 44N06	D 9	1	0.4				A	50	5	0000−2400	
33		S	OLBIA	I	09E29 40N54	D 9	10	10.4				A	71	4	0000−2400	
34		S	SQUINZANO	I	18E00 40N27	D 9	25	14.6				A	87	4	0000−2400	
35		S	VERONA	I	11E00 45N27	D 9	2	3.4				A	62	5	0000−2400	
36			GWALIOR	IND	78E10 26N14	A20	300	26.9				A	140	3	0300−0900	25
37			PASIGHAT 1	IND	95E20 28N06	A20	300	26.9				A	140	4	0300−0900	25
38			PASIGHAT 2	IND	95E20 28N06	A20	200	25.0	340	145−175	20.0	B		4	0900−0300	
39			PONDICHERRY 1	IND	79E54 12N00	A20	20	15.1				A	140	3	0300−1000	25
40			PONDICHERRY 2	IND	79E54 12N00	A20	10	12.1				A	140	3	1000−0300	
41			KERMAN	IRN	56E58 30N15	A20	20	13.4				A	69	3	0100−2200	
42			ABASHIRI	J	144E15 44N00	A15	0.1	−9.4				A	128	4	0000−2400	
43			ASHIKAGA	J	139E30 36N18	A15	0.1	−9.4				A	90	5	0000−2400	
44			FUJIYOSHIDA	J	138E49 35N30	A15	0.1	−9.6				A	68	5	0000−2400	
45			FUKUYAMA	J	133E22 34N30	A15	0.1	−9.6				A	65	5	0000−2400	
46			GERO	J	137E14 35N49	A15	0.1	−9.6				A	53	5	0000−2400	
47			HIRADO	J	129E33 33N23	A15	0.1	−9.6				A	67	5	0000−2400	
48			HIROSAKI	J	140E29 40N37	A15	0.1	−9.6				A	58	5	0000−2400	
49			HITOYOSHI	J	130E47 32N13	A15	0.1	−9.6				A	68	5	0000−2400	
50			IKEDA TOKUSHIM	J	133E48 34N02	A15	0.1	−9.6				A	68	5	0000−2400	
51			KAKEGAWA	J	138E02 34N47	A15	0.1	−9.4				A	87	5	0000−2400	
52			KAMAISHI	J	141E54 39N16	A15	0.1	−9.6				A	52	5	0000−2400	
53			KAMIOKA	J	137E19 36N20	A15	0.1	−9.6				A	49	5	0000−2400	
54			KANOYA	J	130E52 31N24	A15	0.1	−9.6				A	60	5	0000−2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1062	S	KASHIWAZAKI	J	138E33 37N22	A15	0.1	−9.6				A	50	5	0000—2400	
2	(60)		MAESAWA	J	141E07 39N03	A15	0.1	−9.6				A	47	5	0000—2400	
3			MAIZURU	J	135E24 35N28	A15	0.1	−9.6				A	67	5	0000—2400	
4		S	NAGAOKA	J	138E50 37N25	A15	0.1	−9.6				A	65	5	0000—2400	
5			OKAYA	J	138E04 36N03	A15	0.1	−9.6				A	45	5	0000—2400	
6			OMUTA	J	130E26 33N02	A15	0.1	−9.6				A	48	5	0000—2400	
7			OWASE	J	136E12 34N04	A15	0.1	−9.6				A	68	5	0000—2400	
8			SHINJO	J	140E18 38N45	A15	0.1	−9.6				A	50	5	0000—2400	
9			TANABE	J	135E24 33N42	A15	0.1	−9.6				A	68	5	0000—2400	
10		S	TOKAMACHI	J	138E44 37N07	A15	0.1	−9.6				A	50	5	0000—2400	
11			UEDA	J	138E17 36N23	A15	0.1	−9.6				A	65	5	0000—2400	
12			WAKAMATSU	J	139E57 37N29	A15	0.1	−9.6				A	52	5	0000—2400	
13			YUKUHASHI	J	131E00 33N44	A15	0.1	−9.6				A	66	5	0000—2400	
14			CHEONGJU	KOR	127E27 36N43	C10	50	19.1				A	120	5	2100—0800	7
15			CHEONGJU	KOR	127E27 36N43	C10	10	13.1				A	120	5	0800—2100	
16			SIBU	MLA	111E49 02N18	A20	20	15.1				A	135	5	2200—1500	
17			SEGOU	MLI	06W15 13N26	C 9	30	16.9				A	141		0600—2400	
18			ONITSHA	NIG	06E47 06N10	C 9	10	10.4				A	76	4	0500—2300	
19			ROTORUA	NZL	176E14 38S10	A20	5	7.4				A	50	5	0000—2400	
20			MARBEL COT	PHL	124E50 06N30	C 9	5	7.6				A	87	3	2100—1600	
21			PASIG RIZAL	PHL	121E04 14N35	C 9	10	10.6				A	87	3	2100—1600	
22			HRUBIESZOW	POL	23E53 50N48	A20	1	0.4				A	70	5	0000—2400	
23			MIELEC	POL	21E26 50N18	A20	1	0.4				A	70	5	0000—2400	
24			PULAWY	POL	21E58 51N25	A20	1	0.4				A	70	5	0000—2400	
25			RADYMNO	POL	22E48 49N57	A20	1	0.4				A	70	5	0000—2400	
26			SZYDLOWIEC	POL	20E51 51N14	A20	1	0.4				A	70	5	0000—2400	
27		S	AZURARA	POR	08W43 41N20	A20	100	22.1				A	140	4	0000—2400	
28		S	BEJA	POR	07W52 37N59	A20	1	0.6				A	90	3	0000—2400	
29		S	CASTELO BRANCO	POR	07W31 39N49	A20	10	10.6				A	90	4	0000—2400	
30		S	ELVAS	POR	07W07 38N53	A20	10	10.6				A	90	5	0000—2400	
31		S	FARO	POR	07W53 37N01	A20	10	10.6				A	90	3	0000—2400	
32		S	GUARDA	POR	07W14 40N22	A20	10	10.6				A	90	5	0000—2400	
33		S	MIRANDELA	POR	07W10 41N31	A20	10	10.6				A	90	5	0000—2400	
34			APIA	SMO	171W50 13S47	A20	10	10.6				A	100	6	0000—2400	
35			BANGKOK	THA	100E34 13N45	A20	20	13.4				A	72	2	0000—2400	
36			DIYARBAKIR	TUR	40E19 37N49	D 9	300	26.9				A	146	4	0200—2300	
37			ANDIJAN	URS	72E21 40N47	A18	50	20.0	350	150—200	11.0	B		4	0000—2400	
38			IOCHKAR OLA	URS	47E50 56N39	C10	50	20.4				A	190	4	0000—2400	
39			BOR	YUG	22E06 44N06	D 9	10	10.6				A	110	4	0800—1500	
40			NOVI PAZAR	YUG	20E32 43N10	D 9	1	0.4				A	70	4	0000—2400	
41			ZAGREB	YUG	15E58 45N49	D 9	10	10.4				A	70	4	0800—1500	
42			ZAGREB	YUG	15E58 45N49	D 9	1	0.4				A	70	4	1500—0800	
43			KINSHASA	ZAI	15E15 04S20	C 9	1	0.4				A	50	8	0000—2400	
44			MWINILUNGA	ZMB	24E12 11S40	A20	10	10.6				A	113	4	0200—2100	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1080		SOUK AHRAS	ALG	07E57 36N17	D 9	10	10.4				A	45	4	0600—2400	24
2	(62)		TAIF	ARS	40E15 21N15	C 9	20	15.1				A	120	4	0400—1400	24
3			GUNNEDAH NSW	AUS	150E13 30S59	A20	5	7.4				A	50	3	1900—1400	
4			HOBART TAS	AUS	147E24 42S55	A20	5	7.4				A		5	0000—2400	
5			MT ISA QLD	AUS	139E30 20S41	A20	0.2	−6.6				A	43	2	1900—1400	
6			PERTH WA	AUS	115E54 31S56	A20	5	7.6				A	79	4	0000—2400	
7			RAJSHAHI	BGD	88E50 24N20	A20	10	12.1				A	122	3	0000—1800	
8			CHONGQING	CHN	106E30 29N45	A20	5	7.4				A	70	4	2000—1800	
9			HAIKOU	CHN	110E15 20N02	A20	200	25.1				A	140	4	2000—1800	
10			NENJIANG	CHN	125E02 49N05	A20	0.1	−10.0				A	50	4	2000—1800	
11			SHANTOU	CHN	116E36 23N30	A20	5	7.4				A	70	4	2000—1800	
12			WUXI SHI	CHN	120E26 31N33	A20	10	10.4				A	70	3	2000—1800	
13			KOTUGODA	CLN	79E55 07N08	C10	100	23.0	40			B		5	0000—1800	
14			GRANADA	E	03W34 37N11	D 9	5	7.4				A	60	4	0000—2400	
15			LA CORUNA	E	08W24 43N19	D 9	3	5.1				A	108	5	0000—2400	
16			PALMA MALLORCA	E	02E37 39N35	D 9	2	3.4				A	50	4	0000—2400	
17		S	EL MINYA	EGY	30E33 28N07	D 9	10	10.6				A	100	3	0000—2400	24
18		S	IDFU	EGY	32E49 25N00	D 9	10	10.6				A	100	3	0000—2400	24
19		S	SOHAG	EGY	31E43 26N27	D 9	10	10.6				A	100	3	0000—2400	24
20			ORESTIAS	GRC	26E32 41N30	C 9	20	13.4				A	65	2	0400—2200	
21			FADA NGOURMA	HVO	00E21 12N03	A20	30	16.9				A	139	4	0000—2400	
22			MADURAI	IND	78E15 09N25	A20	300	26.9				A	140	3	0300—1000	25
23			NAJIBABAD	IND	78E12 29N24	A20	100	22.1				A	140	3	0300—0900	25
24			SINGARADJA	INS	115E04 08S06	A18	10	10.4				A	70	5	2100—1600	
25			ABADAN	IRN	48E15 30N22	A20	600	33.8	270	320—220	21.8	B		2	1500—2200	
26			EILAT	ISR	35E00 29N40	D 9	10	10.4				A	65	3	0000—2400	33
27			MOMBASA	KEN	39E40 04S05	C 9	100	23.0	310	50—210	20.0	B		4	0000—2400	
28			YEOSU	KOR	127E44 34N43	C10	10	12.1				A	120	4	0000—2400	
29			ONGJIN	KRE	125E22 37N56	A16	1500	39.0				B		5	2000—1000	
30			ONGJIN	KRE	125E22 37N56	A16	750	36.0				B		5	1000—1800	
31		S	AJEDABIA	LBY	20E13 30N45	A20	40	18.1				A	138	5	0400—2400	24
32		S	JALO	LBY	21E15 28N50	A20	20	15.1				A	138	5	0400—2400	24
33			SANDAKAN	MLA	118E01 05N58	A20	10	12.1				A	150	5	0000—2400	
34			LOUREN MARQUES	MOZ	32E36 25S58	C10	5	7.4				A	70	4	0400—2200	
35			CASABLANCA	MRC	07W40 33N36	C 9	5	7.6				A	80	4	0600—2400	24
36			MINNA	NIG	06E42 09N38	C 9	50	17.4				A	75	4	0500—2300	
37			AUCKLAND	NZL	174E38 36S51	A20	10	12.1				A	120	3	0000—2400	
38			LAHORE	PAK	74E20 31N35	A20	50	17.4				A	69	3	0000—2000	
39			LUCENA CITY	PHL	121E37 13N34	C 9	5	7.6				A	86	3	2100—1600	
40			KATOWICE	POL	18E52 50N38	C 9	1500	33.9				A	132	4	0000—2400	
41			LUNSAR	SRL	12W03 08N41	C 9	20	13.4				A	40	2	0500—2400	
42			MONGO	TCD	18E41 12N11	C 9	30	16.9				A			0400—2300	
43		S	NAKHON SAWAN	THA	100E08 15N40	A20	10	10.4				A	69	2	0000—2400	
44		S	YALA	THA	101E10 06N48	A20	10	10.4				A	69	3	0000—2400	
45			DILI	TMP	125E34 08S33	A20	10	10.4				A	75	3	2200—1800	
46			BIISK	URS	85E15 52N34	A18	50	17.0				A	190	4	0000—2400	
47			KRASNOVODSK	URS	52E48 40N00	A18	50	17.6				A	100	4	0000—2400	
48			KYZYL	URS	94E28 51N43	C10	500	27.0				A	190	4	0000—2400	
49			ULIANOVSK	URS	48E20 54N19	A18	5	7.0				A	190	4	0000—2400	
50			BELI KRIZ 1	YUG	13E35 45N31	D 9	200	28.0	270	25— 42	8.0	B		2	0000—2400	



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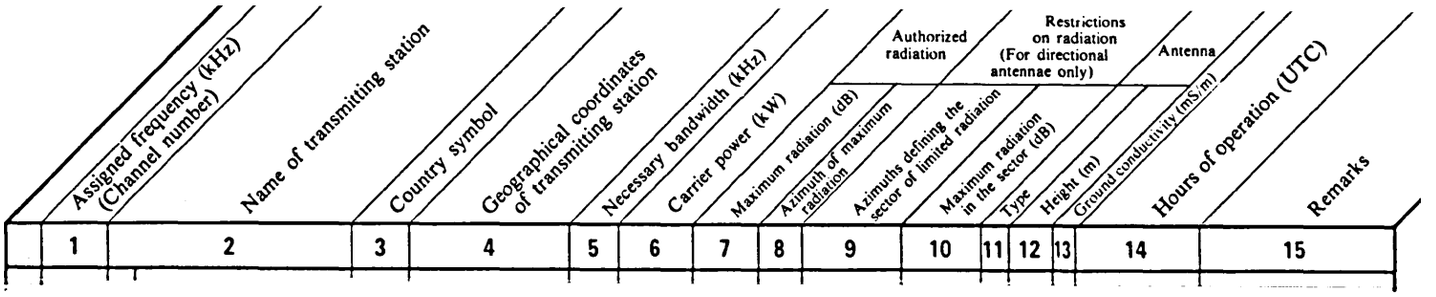
1	1071		BUSHTRICA	ALB	19E24 41N53	A20	1	0.4				A	70	6	0400—2300	
2	(61)		ILLIZI	ALG	08E26 26N01	D 9	2	3.4				A	70	5	0600—2400	24
3			KATANNING WA	AUS	117E29 33S39	A20	5	7.4				A	70	2	1900—1400	
4			KINGAROY QLD	AUS	151E50 26S25	A20	5	7.4				A	67	3	1900—1400	
5			MARYBOROUGH VC	AUS	143E49 37S02	A20	5					B		2	1900—1400	
6			ANSHAN	CHN	122E58 41N07	A20	10	10.4				A	70	4	2000—1800	
7			BAOJI SHI	CHN	107E10 34N22	A20	10	10.4				A	70	4	2000—1800	
8		S	GUI XIAN	CHN	109E36 23N06	A20	100	22.1				A	140	4	2000—1800	
9		S	PINGXIANG 2	CHN	106E45 22N11	A20	20	13.4				A	70	4	2000—1800	
10		S	QINZHOU	CHN	108E37 21N58	A20	10	10.4				A	70	4	2000—1800	
11			QIQIHAR	CHN	123E58 47N18	A20	10	10.4				A	70	4	2000—1800	
12			TIANJIN	CHN	117E09 39N09	A20	50	17.4				A	70	4	2000—1800	
13			KINKALA	COG	14E49 04S18	A20	30	15.4				A	112	5	0000—2400	
14			PRAIA	CPV	23W30 14N55	A18	10	10.4				A	40	6	1900—2400	
15			MAN	CTI	07W38 07N29	C 9	10	12.1				A		7	0600—2400	
16			GIMMA	ETH	36E50 07N40	C 9	30	16.9				A	140	3	0400—2300	
17		S	BASTIA	F	09E24 42N47	D 9	20	13.6				A	100	5	0000—2400	
18		S	BAYONNE	F	01W28 43N29	D 9	20	13.4				A	50	4	0000—2400	
19		S	BREST	F	04W09 48N16	D 9	100	22.1				A	130	5	0000—2400	
20		S	GRENOBLE	F	05E39 45N11	D 9	20	13.6				A	110	6	0000—2400	
21		S	LILLE	F	03E00 50N31	D 9	100	20.4				A	76	3	0000—2400	
22		S	MONTPELLIER	F	03E51 43N39	D 9	100	25.0	335			B		3	0000—2400	
23		S	PORTO—VECCHIO	F	09E12 41N30	D 9	20	15.1				A	120	6	0000—2400	
24			COIMBATORE	IND	77E06 11N00	A20	300	26.9				A	140	4	0300—1000	25
25			RAJKOT	IND	70E31 22N30	A20	1000	32.1				A	140	3	0000—2400	
26			HIROSHIMA	J	132E28 34N26	A15	20	15.1				A	137	4	0000—2400	
27			CHOLWON	KRE	126E55 38N21	D 9	100	25.0				B		6	2000—1800	
28			IBU KOTA	MLA	101E45 03N15	A20	20	13.4				A	37	5	2200—1700	
29			F DERICK	MTN	12W43 22N41	B20	20	15.1				A	122		0600—2400	24
30			OGWASHI UKU	NIG	06E31 06N10	C 9	30	16.9				A	140	4	0500—2300	
31			KUMARA	NZL	171E09 42S34	A20	10	12.1				A	150	6	0000—2400	
32			DAVAO CITY	PHL	125E34 07N03	C 9	1	0.6				A	87	3	2100—1600	
33			TAGBILARAN BHL	PHL	123E51 09N38	C 9	1	0.6				A	87	3	2100—1600	
34			WAU	SDN	28E01 07N48	A20	200	23.0				A	266	3	0400—2200	24
35			TARTOUS	SYR	35E53 34N51	C 9	60	17.8				A	33	2	0500—2200	
36			LITVINOV	TCH	13E36 50N36	A20	1	0.4				A	60	5	0000—2400	
37			MNICH HRADISTE	TCH	15E00 50N30	A20	25	14.4				A	50	5	0000—2400	
38			TATRY	TCH	20E18 49N03	C 9	7	8.9				A	60	5	0400—1700	7
39		S	ABAKAN	URS	91E11 53N46	A16	50	20.4				A	190	4	0000—2400	
40			KRASNODAR	URS	39E00 45N02	A16	20	16.4				A	190	4	0000—2400	
41		S	KULDIGA	URS	22E00 56N56	A16	50	20.4				A	190	4	0000—2400	
42		S	RIGA	URS	24E00 56N55	A16	60	21.2				A	190	4	0000—2400	
43		S	USTKAMENOGORSK	URS	82E36 49N55	C10	100	25.0	60	140—220	10.0	B		4	0000—2400	
44		S	VALMIERA	URS	25E29 57N32	A16	50	20.4				A	190	4	0000—2400	
45			ZEIA	URS	127E15 53N44	A18	10	10.6				A	80	4	0000—2400	
46		S	BANJA LUKA	YUG	17E11 44N50	D 9	25	16.1				A	140	3	0000—2400	
47		S	BIJELJINA	YUG	19E14 44N42	D 9	10	10.6				A	90	3	0000—2400	
48		S	GORAZDE	YUG	18E58 43N41	D 9	10	10.6				A	90	5	0000—2400	
49		S	MOSTAR	YUG	17E49 43N25	D 9	50	17.6				A	90	5	0000—2400	
50			KITWE	ZMB	28E12 12S46	A20	100	22.1				A	150	4	0200—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1089 KHZ (63) — 154 —

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1089		DURRES	ALB	19E20 41N17	A20	150	23.9				A	130	5	0400—2400	23/URS
2	(63)		REGGANE	ALG	00E20 26N50	D 9	4	6.4				A	70	5	0600—2400	24
3			LUBECK VIC	AUS	142E33 36S45	A20	5	7.4				A	56	2	1900—1400	
4			MORANBAH QLD	AUS	148E00 23S00	A20	5	7.4				A		4	1900—1400	
5			ORANGE NSW	AUS	149E08 33S28	A20	5					B		4	1900—1400	
6			ANGRA HEROISMO	AZR	27W11 38N42	A20	10	10.0				A	70	4	0000—2400	
7			BOUAR	CAF	15E35 05N58	C 9	100	20.4				A	68	5	0400—2300	
8		S	AOHAN QI	CHN	119E42 42N20	A20	10	10.4				A	70	4	2000—1800	
9			BAODING	CHN	115E33 38N51	A20	5	7.4				A	70	4	2000—1800	
10		S	HEXIGTEN QI	CHN	117E22 43N12	A20	20	13.4				A	70	4	2000—1800	
11		S	KUANDIAN	CHN	124E42 40N44	A20	20	13.4				A	70	4	2000—1800	
12		S	LUDA	CHN	121E30 38N54	A20	10	10.4				A	70	4	2000—1800	
13		S	PANSHAN	CHN	122E02 41N08	A20	10	10.4				A	70	4	2000—1800	
14		S	PENGHU	CHN	119E33 23N34	A20	50	17.4				A	70	5	2000—1800	
15		S	SHENYANG	CHN	123E36 41N54	A20	100	22.1				A	140	4	2000—1800	
16		S	SUIZHONG	CHN	120E20 40N21	A20	10	10.4				A	70	4	2000—1800	
17		S	YILAN	CHN	121E45 24N45	A20	50	17.4				A	70	5	2000—1800	
18		S	YULI	CHN	121E19 23N20	A20	20	15.1				A	140	5	2000—1800	
19			HABOHO 1	COM	43E18 11S37	A20	50	19.1				A	120	1	0000—2400	
20			ZYYI	CYP	33E19 34N43	A20	7.5	9.4				A	106	5	0400—2200	11/G
21			NAKFA	ETH	38E30 16N36	C 9	10	10.4				A	69	3	0400—2300	
22			NAULU REWA	FJI	178E32 18S04	A20	10	10.4				A	60	5	1700—1200	
23		S	BROOKMANS PARK	G	00W11 51N44	C10	150	26.0	158			B		3	0000—2400	
24		S	FAREHAM	G	01W13 50N51	C10	1	0.0				A	38	4	0000—2400	
25		S	LISNAGARVEY	G	06W04 54N30	A20	10	11.0				A	46	4	0000—2400	
26		S	MOORSIDE EDGE	G	01W54 53N38	C10	150	26.0	65			B		4	0000—2400	
27		S	MOORSIDE EDGE	G	01W54 53N38	C10	150	26.0	245			B				
28		S	REDMOSS	G	02W05 57N07	C10	2	3.4				A	76	5	0000—2400	
29		S	REDRUTH	G	05W13 50N13	C10	2	3.0				A	38	5	0000—2400	
30		S	TYWYN	G	04W06 52N35	C10	1	0.0				A	38	4	0000—2400	
31		S	WASHFORD	G	03W21 51N10	C10	50	19.0				A	152	4	0000—2400	
32		S	WESTERGLEN	G	03W50 55N58	C10	50	21.0	65			B		4	0000—2400	
33		S	WESTERGLEN	G	03W50 55N58	C10	50	21.0	245			B				
34		S	WHITEHAVEN	G	03W35 54N32	C10	1	0.0				A	46	4	0000—2400	
35			GIBRALTAR 2	GIB	05W21 36N08	A20	2	3.4				A	40		0700—2300	
36			ANDERSEN AFB	GUM	144E55 14N34	C 9	0.1	−10.0				A	27	2	0000—2400	
37			JAMMU 1	IND	74E49 32N47	A20	20	15.1				A	140	4	0300—0900	25
38			JAMMU 2	IND	74E49 32N47	A20	10	12.1				A	140	4	0900—0300	
39			NAGPUR	IND	79E03 21N06	A20	20	15.1				A	115	3	0300—0900	25
40			PATNA	IND	85E13 25N37	A20	20	15.1				A	115	3	0300—0900	25
41			UDIPI	IND	74E44 13N27	A20	20	15.1				A	140	3	0000—2400	
42			ENDEH	INS	121E40 08S51	A18	2	3.4				A	69	5	2100—1600	
43			TJIREBON	INS	108E34 06S45	A18	10	10.4				A	69	5	2200—1700	
44			MIANEH	IRN	47E42 37N27	A20	10	10.4				A	69	3	0300—1400	
45			BET HILEL	ISR	35E36 33N12	D 9	1	0.4				A	45	4	0000—2400	33
46			SENDAI	J	140E55 38N16	A15	10	12.1				A	138	4	0000—2400	
47			CHUNG JU	KOR	127E55 36N59	C10	10	10.6				A	100	6	0000—2400	
48			PT SANTO 1	MDR	16W20 33N04	A20	1	0.4				A	60	4	0000—2400	
49			GRIK	MLA	101E08 05N23	A20	20	15.1				A	150	5	2200—1700	
50			IKORODU	NIG	03E34 06N34	C 9	20	13.4				A	70	4	0500—2300	
51			CHITRAL	PAK	72E00 35N50	A20	10	10.4				A	70	4	0000—2000	
52			CALBAYOG SAMAR	PHL	124E35 12N04	C 9	5	7.6				A	85	3	2100—1600	
53			COTABATO CITY	PHL	124E14 07N12	C 9	5	7.6				A	85	3	2100—1600	
54			DAGUPAN CITY	PHL	120E20 16N02	C 9	5	7.6				A	85	3	2100—1600	



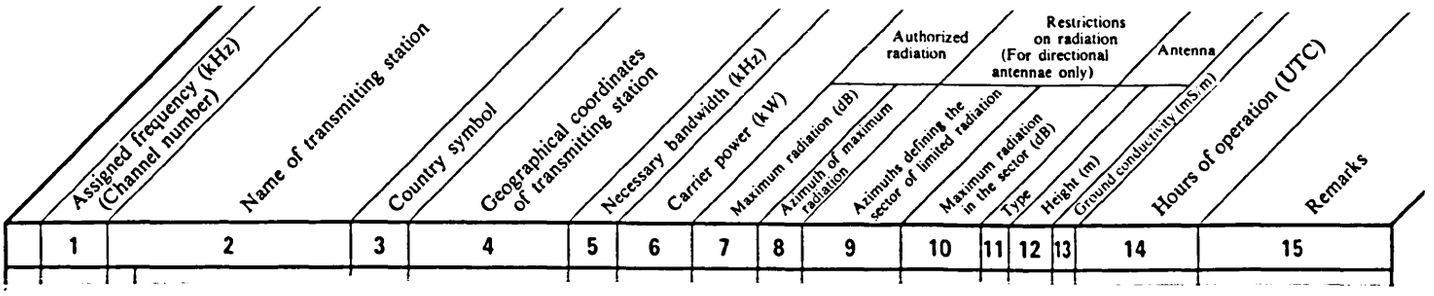
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1089	DIOURBEL	SEN	16W15 14N40	C 9	20	13.6				A	100	4	0600—2400	
2	(63)	SINGIDA	TGK	34E48 04S50	C 9	20	15.1				A	138	4	0300—2100	
3		BANGKOK	THA	100E30 13N44	A20	2	3.0				A	30	2	0000—2400	
4		KRASNODAR	URS	39E07 45N01	A16	300	24.8				A	190	4	0000—2400	
5		PERM	URS	56E18 57N59	C10	50	17.0				A	190	4	0000—2400	
6		NOVI SAD	YUG	19E48 45N30	D 9	50	19.1				A	145	2	0800—1500	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

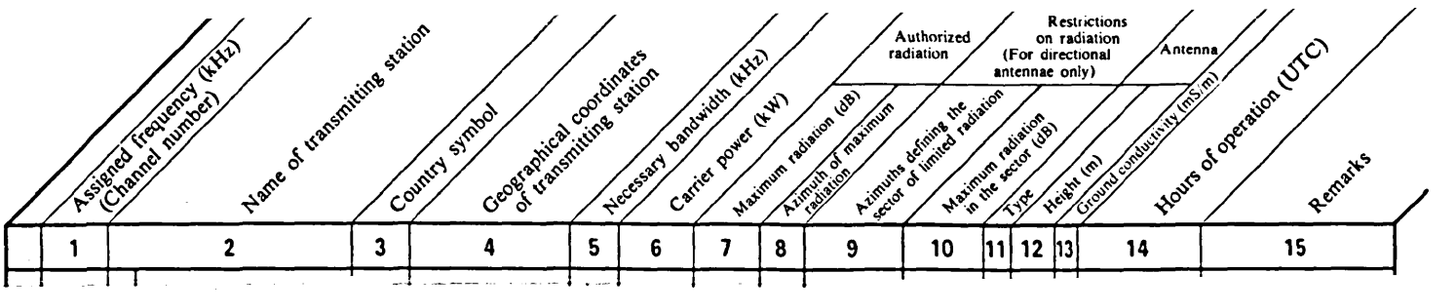
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1098		OUARGLA	ALG	05E25 31N56	D 9	40	16.4				A	70	5	0600—2400	24
2	(64)		ABHA	ARS	42E30 18N15	C 9	20	15.1				A	120	4	0000—2400	24
3			DAMMAM	ARS	50E10 26N24	C10	20	13.3				A	68	3	0000—2400	24
4			NAJMAH	ARS	50E04 26N42	A20	0.1	−10.0				A	24	4	0100—2400	24
5			RAS TANURA	ARS	50E05 26N40	A20	0.1	−10.0				A	24	3	0100—2400	24
6			LAUNCESTON TAS	AUS	147E04 41S23	A20	5	7.4				A	55	4	0000—2400	
7			LONGREACH QLD	AUS	144E13 23S23	A20	5	7.4				A	58	2	1900—1400	
8			MERREDIN WA	AUS	118E12 31S30	A20	5	7.4				A	69	2	1900—1400	
9			ZAGNANADO	BEN	02E19 07N14	C10	5	7.6				A	94	4	0500—2400	
10			TANGAIL	BGD	89E26 24N14	A20	10	12.1				A	122	3	0000—1800	
11			KUALA BELAIT	BRU	114E12 04N36	A20	10	10.0				A	24	4	2200—1500	
12		S	ABGANAR QI	CHN	116E08 43N56	A20	20	13.4				A	70	4	2000—1800	
13		S	BAOTOU	CHN	109E56 40N40	A20	50	17.4				A	70	4	2000—1800	
14		S	DONG UJUMQIN	CHN	116E56 45N30	A20	10	10.4				A	70	4	2000—1800	
15			MAOMING	CHN	110E51 21N56	A20	5	7.4				A	70	4	2000—1800	
16		S	OTOG QI	CHN	107E59 39N06	A20	20	13.4				A	70	4	2000—1800	
17		S	QOG QI	CHN	106E58 41N28	A20	10	10.4				A	70	4	2000—1800	
18			XIAMEN	CHN	118E18 24N24	A20	10	10.4				A	70	4	2000—1800	
19			MAROUA	CME	14E18 10N50	C 9	30	16.9				A	136	4	0500—2300	
20			S CRUZ DEPALMA	CNR	17W45 28N40	D 9	5	7.2				A	52	5	0000—2400	
21			BOLOGNA	I	11E31 44N31	D 9	60	19.9				A	135	3	0400—1700	7
22			GOALPARA	IND	90E40 26N13	A20	100	22.1				A	135	3	0300—0900	25
23			ROHTAK	IND	76E27 28N56	A20	300	26.9				A	130	3	0300—0900	25
24			VIJAYAWADA	IND	80E39 16N31	A20	20	15.1				A	120	3	0300—1000	25
25			DJAMBI	INS	103E39 01S36	A18	10	10.4				A	68	3	2200—1700	
26			SUMENEP	INS	113E51 07S01	A18	10	10.6				A	105	6	2200—1700	
27			ZABOL	IRN	61E29 31N02	A20	200	25.0	90	220—320		B		4	0200—2100	
28			BEER SHEVA	ISR	34E32 31N14	D 9	20	13.0				A	30	3	0000—2400	33
29			INA	J	137E59 35N50	A15	0.1	−9.4				A	85	5	0000—2400	
30			KORIYAMA	J	140E22 37N23	A15	1	0.4				A	62	5	0000—2400	
31			NAGANO	J	138E13 36N40	A15	5	7.6				A	100	5	0000—2400	
32		S	OITA	J	131E41 33N25	A15	5	7.4				A	70	5	0000—2400	
33		S	SAEKI	J	131E55 32N58	A20	0.1	−9.6				A	50	5	0000—2400	
34			SASEBO	J	129E45 33N09	A15	1	0.4				A	44	5	0000—2400	
35			SHIMABARA	J	130E22 32N46	A15	0.1	−9.6				A	47	5	0000—2400	
36			TSURUOKA	J	139E51 38N45	A15	1	0.4				A	68	5	0000—2400	
37			CHINJU	KOR	128E04 35N11	C10	20					B		4	0000—2400	
38			TO SAN	KRE	126E02 38N18	A16	1	0.0				A	30		2000—1800	
39			MOPTI	MLI	04W11 14N29	C 9	30	16.9				A	136		0600—2400	
40			MAJURO	MRL	171E23 07N06	C10	10	10.4				A	64	2	1800—1200	
41			TIEBAGHI 2	NCL	164E13 20S28	A20	10	14.0	60	190—270	0.0	B		3	0000—2400	
42			CHRISTCHURCH	NZL	172E49 43S42	A20	10	12.1				A	120	4	0000—2400	
43			HYDERABAD	PAK	68E16 25N25	A20	10	12.1				A	121	3	0000—2000	
44			MANDALU RIZAL	PHL	121E03 14N35	C 9	10	10.6				A	85	3	2000—1600	
45			BRATISLAVA	TCH	17E44 48N31	C 9	1500	35.2				A	160	5	0000—2400	
46			NAKHON SAWAN	THA	100E07 15N12	A20	50	17.4				A	74	2	0000—2400	
47			SONGKHLA	THA	100E30 07N00	A20	10	10.4				A	66	3	0000—2400	
48			KOTIDO	UGA	34E06 03N00	C 9	10	10.6				A	105	4	0300—2100	
49			ALMA ATA	URS	77E00 43N17	A16	150	21.8				A	190	4	0000—2400	
50			KRASNOGORSK	URS	142E18 48N27	A18	50	17.0				A	190	4	0000—2400	
51			VOLOGDA	URS	40E00 59N12	A18	5	7.0				A	190	4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1107		KABOUL	AFG	69E12 34N31	C 9	1000	33.0	270	30—150	24.0	B		4	0100—2000	
2	(65)		SYDNEY NSW	AUS	151E04 33S51	A20	5	9.1				A	144	4	0000—2400	
3		S	MOGHILEV	BLR	30E17 53N55	A16	100	25.0	100	180—250	10.0	B		4	0000—2400	
4		S	AKSU	CHN	80E19 41N03	A20	10	10.4				A	70	4	2000—1800	
5		S	ALTAY	CHN	88E18 47N50	A20	10	10.4				A	70	4	2000—1800	
6		S	BOLE	CHN	82E08 44N54	A20	10	10.4				A	70	4	2000—1800	
7		S	CHANGLING	CHN	123E59 44N16	A20	10	10.4				A	70	4	2000—1800	
8		S	DAAN	CHN	124E18 45N30	A20	20	13.4				A	70	4	2000—1800	
9		S	HAMI	CHN	93E20 42N50	A20	10	10.6				A	90	4	2000—1800	
10		S	HORQIN YZH QI	CHN	121E24 45N07	A20	20	13.4				A	70	4	2000—1800	
11		S	HUNCHUN	CHN	130E21 42N52	A20	10	10.4				A	70	4	2000—1800	
12		S	HUNJIANG	CHN	126E23 41N54	A20	100	20.0	310	80—180	14.0	B		4	2000—1800	
13		S	JILIN SHI	CHN	126E30 43N48	A20	20	13.4				A	70	4	2000—1800	
14		S	KARAMAY	CHN	85E00 45N32	A20	10	10.4				A	70	4	2000—1800	
15		S	KORLA	CHN	86E10 41N44	A20	10	10.6				A	90	4	2000—1800	
16		S	SIPING	CHN	124E20 43N10	A20	10	10.4				A	70	4	2000—1800	
17		S	TONGLIAO SHI	CHN	122E13 43N40	A20	50	17.4				A	70	4	2000—1800	
18		S	YECHENG	CHN	77E22 37N55	A20	20	13.4				A	70	4	2000—1800	
19			DOUALA	CME	09E47 04N04	C 9	100	22.1				A	135	5	0500—2300	
20			ZANAGA	COG	13E50 02S49	A20	20	13.6				A	81	5	0000—2400	
21		S	BERLIN 2	D	13E17 52N27	D 9	10	12.1				A	122	4	0000—2400	11/USA
22		S	GRAFENWOEHR	D	11E57 49N43	D 9	10	10.4				A	65	4	0000—2400	
23		S	KAISERSLAUTERN	D	07E43 49N30	D 9	10	12.1				A	131	4	0000—2400	
24		S	MUENCHEN ISMAN	D	11E45 48N15	D 9	40	16.0				A	200	4	0000—2400	
25		S	NUERNBERG	D	10E59 49N27	D 9	10	12.1				A	122	4	0000—2400	
26		S	CACERES	E	06W23 39N27	D 9	5	7.4				A	40	4	0000—2400	
27		S	LERIDA	E	00E39 41N35	D 9	2	3.4				A	40	5	0000—2400	
28		S	LOGRONO	E	02W30 42N29	D 9	2	3.4				A	96	4	0000—2400	
29		S	MADRID	E	03W40 40N26	D 9	20	13.4				A	80	5	0000—2400	
30		S	MALAGA	E	04W27 36N43	D 9	10	10.4				A	40	5	0000—2400	
31		S	MURCIA	E	01W09 38N00	D 9	2	3.4				A	60	4	0000—2400	
32		S	PALMA MALLORCA	E	02E37 39N35	D 9	2	3.4				A	50	4	0000—2400	
33		S	PONFERRADA	E	06W34 42N33	D 9	2	3.4				A	50	5	0000—2400	
34		S	SANTANDER	E	03W49 43N25	D 9	2	3.4				A	40	5	0000—2400	
35		S	SOCUELLANOS	E	02W47 39N18	D 9	2	3.4				A	40	4	0000—2400	
36		S	TERUEL	E	01W10 40N20	D 9	5	7.5				A	80	5	0000—2400	19
37		S	VALLADOLID	E	04W41 41N36	D 9	2	3.4				A	50	4	0000—2400	
38		S	VIGO	E	08W43 42N14	D 9	5	7.4				A	50	4	0000—2400	
39		S	YECLA	E	01W10 38N40	D 9	5	7.4				A	60	4	0000—2400	19
40			BATRA	EGY	31E27 31N09	D 9	600	35.0	90			B		3	0000—2400	24
41			BRISTOL	G	02W28 51N29	A20	0.3	−1.0	225			B		4	0000—2400	
42			INVERNESS	G	03W48 57N50	A20	2	1.2				B		5	0000—2400	
43			LEEDS	G	01W38 53N46	A20	1	0.4				A	38	3	0000—2400	
44			DHANBAD	IND	86E24 23N48	A20	300	26.9				A	135	3	0300—0900	25
45			GULBARGA	IND	76E54 17N19	A20	300	26.9				A	135	3	0000—2400	
46			PALGHAT	IND	76E42 10N48	A20	300	26.9				A	135	4	0300—1000	25
47			JOGJAKARTA	INS	110E24 07S48	A18	10	10.4				A	68	5	2200—1700	
48			KUPANG	INS	123E38 10S13	A18	5	7.4				A	67	7	2100—1600	
49			MAHABAD	IRN	45E43 36N46	A20	10	10.4				A	68	3	0300—1400	
50			HIKONE	J	136E15 35N15	A15	1	0.4				A	67	5	0000—2400	
51			KAGOSHIMA	J	130E35 31N39	A15	20	16.0	220			B		4	0000—2400	
52			KANAZAWA	J	136E37 36N32	A15	5	10.0	30			B		4	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1107	S	KANNONJI	J	133E39 34N07	A15	0.1	−9.6				A	67	5	0000−2400	
2	(65)	S	MARUGAME	J	133E47 34N18	A15	0.1	−9.6				A	50	5	0000−2400	
3			MERU	KEN	37E37 00N05	C 9	100	20.6				A	100	4	0000−2400	
4			POHANG	KOR	129E13 35N55	C10	10	10.6				A	105	4	0000−2400	
5			RAGRIM	KRE	127E12 40N57	A16	5	7.4				A	50		2000−1800	
6			TEMERLOH	MLA	102E32 03N31	A20	20	13.6				A	100	5	0000−2400	
7			KIFFA	MTN	11W23 16N36	B20	20	15.1				A	136		0600−2400	24
8			NKHOTA KOTA	MWI	34E18 12S57	A20	1	0.6				A	92	3	0200−2300	
9			OWERRI	NIG	07E15 05N25	C 9	10	10.6				A	94	4	0500−2300	
10			DAVAO CITY	PHL	125E35 07N05	C 9	1	0.6				A	84	3	2100−1600	
11			ILOILO CITY	PHL	122E29 10N42	C 9	1	0.6				A	84	3	2100−1600	
12		S	KAVIENG	PNG	150E48 02S25	B10	10	10.6				A	80	3	1900−1300	
13		S	NAMATANAI	PNG	152E27 03S40	B10	2	3.0				A	30	4	1900−1300	
14			CHON BURI	THA	100E53 12N39	A20	10	10.4				A	62	2	0000−2400	
15			DUBAI	UAE	55E16 25N14	C 9	10	10.4				A	60	5	0200−2100	24
16			ARKHANGHELSK	URS	40E12 64N33	A16	100	20.0				A	190	5	0000−2400	
17		S	CHAULIAI	URS	23E15 55N56	A18	25	14.0				A	190	4	0000−2400	
18		S	KAUNAS	URS	23E40 55N31	A16	150	26.0	60	140−210	11.0	B		4	0000−2400	
19		S	KLAIPEDA	URS	21E06 55N44	A18	25	14.0				A	190	4	0000−2400	
20			NALTCHIK	URS	43E35 43N28	A16	35	15.4				A	190	4	0000−2400	
21		S	TIURI	URS	24E43 58N28	A18	75	18.8				A	190	4	0000−2400	
22			NOVI SAD	YUG	20E35 45N22	D 9	150	24.8	140	0− 60	11.8	B		2	0000−2400	
23			NOVI SAD	YUG	20E35 45N22	D 9	150	24.8	280	190−230	22.8	B				

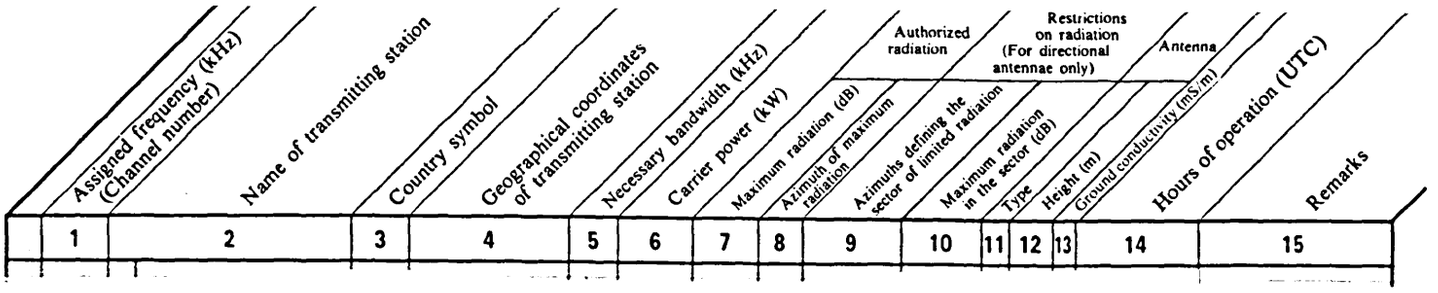


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1116		S SALVADOR	AGL	14E00 06S20	A20	5	7.4				A	66	3	0000—2400	
2	(66)		SHAQRA	ARS	45E10 25N15	C 9	20	15.1				A	120	4	0000—2400	
3			BRISBANE QLD	AUS	152E58 27S32	A20	5					B		3	0000—2400	
4			MELBOURNE VIC	AUS	145E00 38S00	A20	5	7.4				A		2	0000—2400	
5			S CRUZ 1	AZR	28W01 39N03	A20	1	0.4				A	60	4	0000—2400	
6			GITEGA	BDI	29E30 03S25	C 9	300	26.9				A	134	4	0300—2400	
7		S	ANTU	CHN	128E22 42N33	A20	100	22.1				A	140	4	2000—1800	
8		S	BARKAM	CHN	102E27 31N42	A20	10	10.4				A	70	4	2000—1800	
9		S	CHONGQING	CHN	106E30 29N45	A20	50	17.4				A	70	4	2000—1800	
10		S	DEGE	CHN	98E37 31N46	A20	10	10.4				A	70	4	2000—1800	
11		S	DEQING	CHN	111E46 23N09	A20	20	13.4				A	70	4	2000—1800	
12		S	DUKOU	CHN	101E43 26N35	A20	10	10.4				A	70	4	2000—1800	
13		S	HORQIN YQ QI	CHN	122E04 46N04	A20	100	22.1				A	140	4	2000—1800	
14		S	JIANGMEN	CHN	113E07 22N32	A20	30	15.2				A	70	4	2000—1800	
15		S	MEI XIAN	CHN	116E00 24N20	A20	100	22.1				A	140	4	2000—1800	
16		S	WANXIAN SHI	CHN	108E33 30N52	A20	40	16.4				A	70	4	2000—1800	
17		S	YA XIAN	CHN	109E28 18N17	A20	50	17.4				A	70	4	2000—1800	
18		S	YAAN	CHN	103E01 29N59	A20	10	10.4				A	70	4	2000—1800	
19		S	YAJIANG	CHN	100E57 30N05	A20	10	10.4				A	70	4	2000—1800	
20		S	YIBIN SHI	CHN	104E37 28N46	A20	10	10.4				A	70	4	2000—1800	
21		S	YOUYANG	CHN	108E46 28N51	A20	20	13.4				A	70	4	2000—1800	
22			PERKARA	CLN	81E10 08N44	C10	400	29.0	350			B		3	0000—1800	
23			KORHOGO	CTI	05W39 09N27	C 9	100	22.1				A		7	0600—2400	
24			ASMARA	ETH	38E56 15N21	C 9	10	10.4				A	67	3	0400—2100	
25			DERBY	G	01W25 52N52	A20	1	1.0	350			B		3	0000—2400	
26			LES TOUILLETS	G	02W35 49N28	A20	0.5	−2.4				A	78	4	0000—2400	
27			KOULAMOUTOU	GAB	12E26 01S14	C 9	10	12.1				A		5	0400—2400	
28			ERMOUPOLIS	GRC	26E16 35N17	C 9	300	26.9				A	134	5	0400—2400	
29			BLOEMENDAAL	HOL	04E36 52N24	D 9	0.1	−9.0				A	40	4	0000—2400	
30		S	AOSTA	I	07E18 45N42	D 9	10	10.6				A	95	5	0000—2400	
31		S	BARI	I	16E52 41N04	D 9	250	26.1				A	135	4	0000—2400	
32		S	BOLOGNA	I	11E31 44N31	D 9	60	19.9				A	135	3	0000—2400	
33		S	BOLZANO	I	11E20 46N30	D 9	10	10.4				A	62	5	0000—2400	
34		S	CAGLIARI	I	09E04 39N17	D 9	10	10.4				A	67	3	0000—2400	
35		S	FROSINONE	I	13E22 41N39	D 9	10	10.4				A	67	5	0000—2400	
36		S	REGGIO CALABR	I	15E39 38N06	D 9	1	0.4				A	50	5	0000—2400	
37		S	RIETI	I	12E54 42N25	D 9	10	10.4				A	67	5	0000—2400	
38		S	S REMO	I	07E47 43N49	D 9	5	7.4				A	75	5	0000—2400	
39			MATHURA	IND	77E40 27N30	A20	300	26.9				A	135	3	0300—0900	25
40			SRINAGAR	IND	74E49 34N04	A20	200	25.1				A	135	3	0000—2400	
41			TURA	IND	90E12 25N36	A20	300	26.9				A	145	3	0300—0900	25
42			BIAK	INS	136E04 01S11	A18	10	10.6				A	100	5	2000—1500	
43			PAKANBARU	INS	101E30 00N33	A18	10	10.4				A	68	4	2200—1700	
44			BANDAR LENGEH	IRN	54E50 26N35	A20	125	21.4				A	71	3	0200—2100	
45			HAMADA	J	132E03 34N54	A15	0.1	−9.6				A	68	5	0000—2400	
46		S	IMABARI	J	133E01 34N03	A15	0.1	−9.6				A	50	5	0000—2400	
47			IMARI	J	129E52 33N17	A15	0.1	−9.6				A	50	5	0000—2400	
48			ISHIGAKI	J	124E08 24N22	A15	1	0.4				A	70	5	0000—2400	
49		S	MATSUYAMA	J	132E47 33N48	A15	5	8.0	235			B		5	0000—2400	
50			NIIGATA	J	139E06 37N53	A15	5	13.0	90			B		4	0000—2400	
51		S	YAWATAHAMA	J	132E27 33N28	A15	0.1	−9.6				A	50	5	0000—2400	
52			SAMCHEOG	KOR	129E16 37N25	C10	1	0.4				A	60	6	0000—2400	
53			PUKCHANG	KRE	126E20 39N35	A16	50	21.0				B		6	2000—1800	
54			OUARZAZATE	MRC	06W50 30N55	A18	100	20.4				A	70	5	0500—2400	

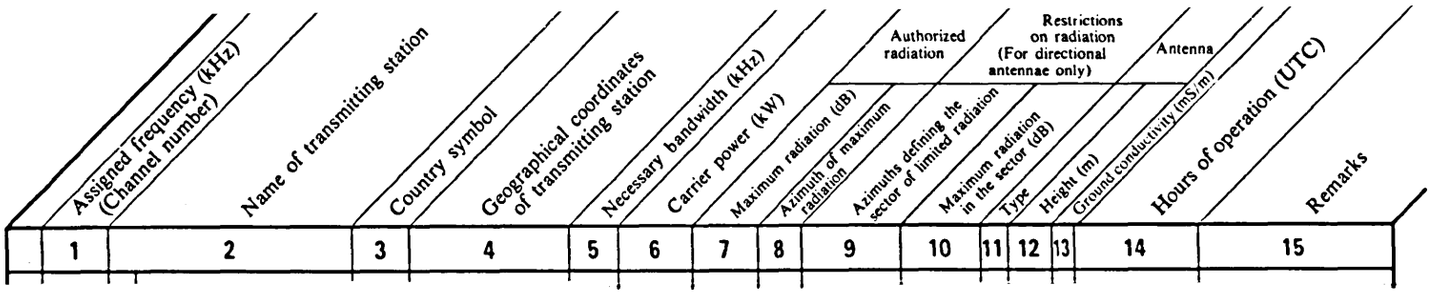


1116 KHZ (66)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1116	TANGER	MRC	05W50 35N45	A18	1	0.0				A	25	5	0500—2400	
2	(66)	NELSON	NZL	173E13 41S20	A20	2	3.4				A	50	5	0000—2400	
3		BATACILOCOS	PHL	120E33 18N03	C 9	5	7.6				A	83	3	2100—1600	
4		LOS BANOS LAG	PHL	121E14 14N09	C 9	5	7.6				A	83	3	2100—1600	
5		TAG BOHOL	PHL	123E51 09N38	C 9	1	0.6				A	83	3	2100—1600	
6		IRIBA	TCD	22E14 15N08	C 9	1	0.4				A			0400—2300	
7		SAMUT SAKHON	THA	100E20 13N40	A20	20	13.4				A	67	2	0000—2400	
8		KALININGRAD	URS	20E30 54N45	A16	30	14.8				A	190	4	0000—2400	
9		KHANTYMANSIISK	URS	69E03 60N57	A16	50	17.0				A	190	4	0000—2400	
10		MOSKVA	URS	38E23 55N50	A18	5	7.0				A	190	4	0000—2400	
11		SOTCHI	URS	39E23 43N35	A16	30	14.8				A	190	4	0000—2400	



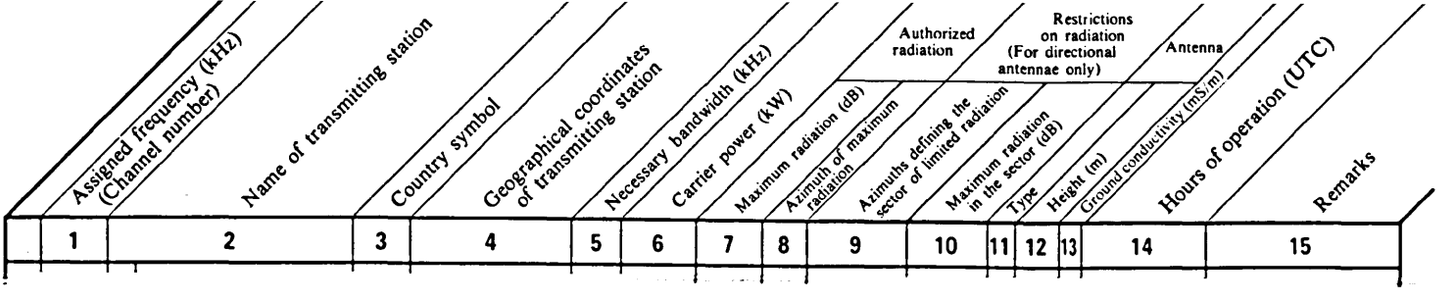
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1125		CARNARVON WA	AUS	113E40 24S50	A20	10	12.1				A		2	2100—1600	
2	(67)		COBAR NSW	AUS	146E00 31S30	A20	5	7.4				A		3	0000—2400	
3			EHRWALD TIROL	AUT	10E55 47N24	D 9	0.1	—10.0				A	15	6	0000—2400	
4			EISENERZ	AUT	14E54 47N33	D 9	0.1	—10.0				A	15	6	0000—2400	
5			GMUEND KAERNT	AUT	13E31 46N55	D 9	0.1	—10.0				A	15	6	0000—2400	
6			IMST	AUT	10E45 47N15	D 9	0.1	—10.0				A	15	6	0000—2400	
7			KUFSTEIN	AUT	12E11 47N35	D 9	0.1	—10.0				A	15	6	0000—2400	
8			MUERZZUSCHLAG	AUT	15E40 47N36	D 9	0.1	—10.0				A	15	6	0000—2400	
9			HOUDENG	BEL	04E08 50N29	D 9	150	21.0	310	110—150	18.0	B		4	0000—2400	
10			STARA ZAGORA	BUL	25E34 42N40	C 9	500	32.0	165			B		4	0000—2400	
11		S	HANDAN SHI	CHN	114E28 36N36	A20	20	13.4				A	70	4	2000—1800	
12		S	HENGSHUI	CHN	115E42 37N44	A20	20	13.4				A	70	4	2000—1800	
13		S	HUAILAI	CHN	115E31 40N23	A20	20	13.4				A	70	4	2000—1800	
14		S	LONGHUA	CHN	117E43 41N19	A20	20	13.4				A	70	4	2000—1800	
15		S	TANGSHAN	CHN	118E13 39N38	A20	100	22.1				A	140	4	2000—1800	
16			URUMQI SHI	CHN	87E30 43N35	A20	0.1	—10.0				A	50	4	2000—1800	
17			PERKARA	CLN	81E10 08N44	C10	400	29.0	350			B		3	0000—1800	
18			C GRECO	CYP	34E04 34N57	C 9	250	30.0	200			B		4	0000—2400	
19			GANGTOK	IND	88E40 27N20	A20	100	23.4				A	150	4	0000—2400	
20			KOZHIKODE	IND	75E50 11N15	A20	300	26.9				A	135	4	0300—1000	25
21			TAWANG	IND	91E54 27N36	A20	300	26.9				A	135	4	0300—0900	25
22			UDAIPUR	IND	73E47 24N30	A20	20	15.1				A	125	3	0000—2400	
23			PALU	INS	119E53 00S54	A18	5	7.4				A	64	6	2100—1600	
24			AHWAZ	IRN	48E40 31N20	C 9	10	10.0				A	65	3	0230—1500	
25			AHWAZ	IRN	48E40 31N20	C 9	5	7.0				A	65	3	1500—2400	
26			HAGI	J	131E24 34N25	A15	1	0.4				A	47	5	0000—2400	
27			MURORAN	J	140E59 42N19	A15	1	0.6				A	107	5	0000—2400	
28			NAHA	J	127E42 26N10	A15	10	10.6				A	107	4	0000—2400	
29			NAYORO	J	142E28 44N22	A15	1	0.4				A	67	5	0000—2400	
30			NIIMI	J	133E28 34N58	A15	0.1	—9.6				A	67	5	0000—2400	
31			OBIHIRO	J	143E12 42N59	A15	1	0.6				A	108	4	0000—2400	
32			TAKAYAMA	J	137E15 36N08	A15	1	0.4				A	67	5	0000—2400	
33			TOTTORI	J	134E12 35N31	A15	1	0.6				A	108	5	0000—2400	
34			MARSABIT	KEN	38E00 02N20	C 9	5	9.1				A	130	4	0000—2400	
35			JANGHEUNG	KOR	126E54 34N40	C10	10	12.1				A	120	4	0000—2400	
36			HOERYONG	KRE	129E36 40N41	A16	2	3.0				A	30		2000—1800	
37			EL BEIDA	LBY	21E45 32N45	D 9	500	33.0	125	280—330	20.0	B		4	0400—2400	24
38			FT DAUPHIN	MDG	46E58 25S00	C 9	5	9.1				A	125	4	0300—2000	
39			NOSY BE	MDG	48E20 13S25	C 9	5	7.0				A	238	4	0300—2000	
40			PT MONIZ 1	MDR	16W11 32N50	A20	1	0.4				A	60	4	0000—2400	
41			TANTAN	MRC	10W51 28N27	A12	25	14.6				A	100	5	0600—2400	24
42			ROSSO	MTN	15W50 16N32	B20	20	13.6				A	94		0600—2400	24
43			NIAMEY	NGR	02E00 13N30	C 9	100	23.4				A	150	4	0000—2400	18/NIG
44			JATTU	NIG	06E17 07N05	C 9	100	20.4				A	74	4	0500—2300	18/NGR
45			WAIPAWA	NZL	176E36 39S48	A20	1	0.4				A	50	4	0000—2400	
46			DAGUPAN CITY	PHL	120E20 16N02	C 9	5	7.6				A	83	3	2100—1600	
47			JOLO SULU	PHL	121E00 06N02	C 9	1	0.4				A	65	3	2100—1600	
48			MASBATE MAS	PHL	123E37 12N21	C 9	1	0.6				A	83	3	2100—1600	
49			GAROWE	SOM	48E30 08N20	A18	10	10.4				A	67	4	0300—2100	
50			CHANDHABURI	THA	102E06 12N36	A20	50	17.6				A	80	3	0000—2400	
51			MOROTO	UGA	34E39 02N30	C 9	10	10.4				A	65	5	0300—2100	
52			EROFEI PAVLOVI	URS	121E57 54N00	A18	50	17.6				A	75	4	0000—2400	
53			MARY	URS	61E50 37N35	A18	50	17.0				A	190	4	0000—2400	
54			VYBORG	URS	28E46 60N42	A16	150	21.8				A	190	4	0000—2400	



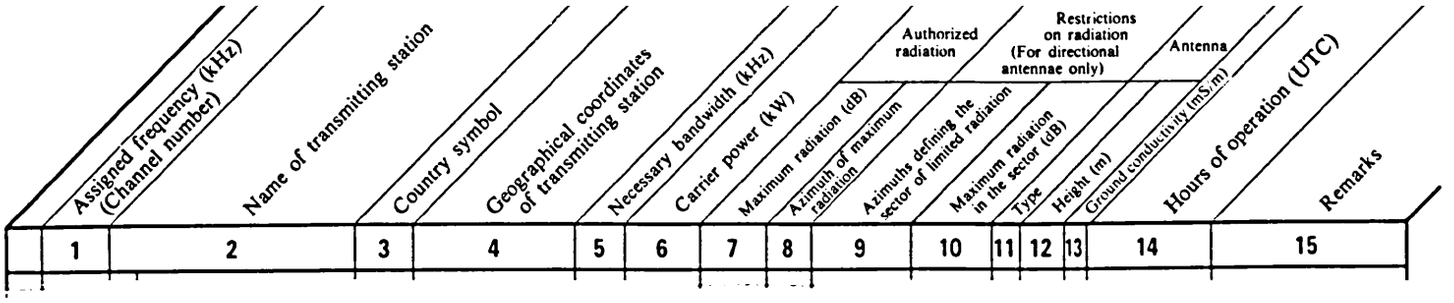
1125 KHZ (67)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1125		SANTO 1	VUT	167E15 15S30	A20	20	13.4				A	50	1	0000—2400	
2	(67)	S	PAZIN	YUG	13E56 45N15	D 9	200	23.0	130	290—330	13.0	B		4	0000—2400	
3		S	PODRAVSLATINA	YUG	17E44 45N45	D 9	100	20.0	160	310— 10	5.0	B		3	0000—2400	
4		S	STON	YUG	17E44 42N50	D 9	100	22.0				A	100	4	0000—2400	
5			SOLWEZI	ZMB	26E25 12S10	A20	10	12.1				A	134	4	0200—2100	

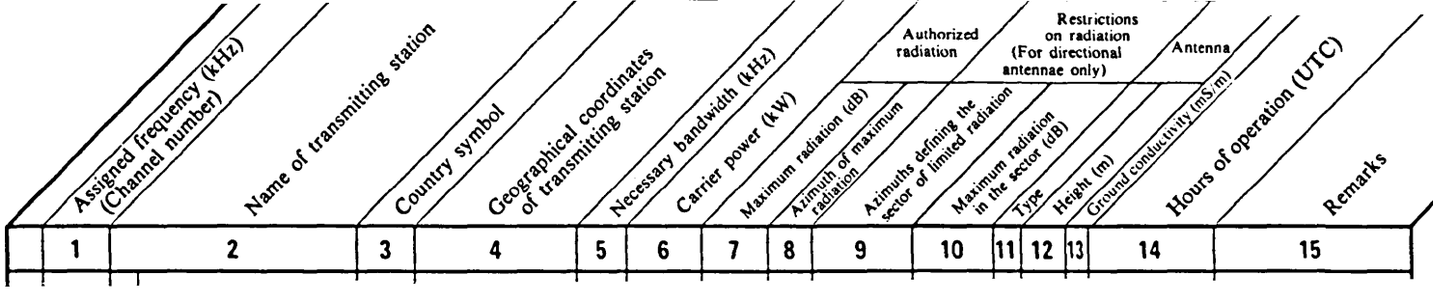
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1134	N GIVA	AGL	15E45 17S05	A20	5	7.4				A	66	3	0000—2400	
2	(68)	ARMIDALE NSW	AUS	151E36 30S33	A20	5					B		4	1900—1400	
3		COLAC VIC	AUS	143E32 38S19	A20	5					B		2	0000—2400	
4		COLLIE WA	AUS	116E11 33S22	A20	5	7.4				A	57	5	1900—1400	
5	S	CHUNAN	CHN	118E58 29N36	A20	20	13.4				A	70	4	2000—1800	
6	S	DINGHAI	CHN	122E06 30N01	A20	10	10.4				A	70	4	2000—1800	
7		JIAYUGUAN	CHN	98E12 39N50	A20	0.1	−10.0				A	50	4	2000—1800	
8	S	LINHAI	CHN	121E07 28N51	A20	50	17.4				A	70	4	2000—1800	
9	S	LONGQUAN	CHN	119E07 28N04	A20	10	10.4				A	70	4	2000—1800	
10	S	SHAOXING	CHN	120E34 30N00	A20	20	13.4				A	70	4	2000—1800	
11	S	WUXING	CHN	120E07 30N51	A20	10	10.4				A	70	4	2000—1800	
12		ZHANJIANG	CHN	110E24 21N12	A20	10	10.4				A	70	4	2000—1800	
13		FOUMBAN	CME	11E00 05N48	C 9	10	12.1				A	132	4	0500—2300	
14	S	ALBACETE	E	01W50 39N00	D 9	5	7.4				A	60	4	0000—2400	19
15	S	BADALONA	E	02E15 41N25	D 9	5	7.4				A	60	5	0000—2400	19
16	S	GRANADA	E	03W35 37N10	D 9	5	7.4				A	60	4	0000—2400	19
17	S	GUADALAJARA	E	03W10 40N35	D 9	5	7.4				A	60	4	0000—2400	19
18	S	IBIZA	E	01E30 38N50	D 9	5	7.4				A	60	4	0000—2400	19
19	S	LUGO	E	07W35 43N00	D 9	5	7.4				A	60	5	0000—2400	19
20	S	PAMPLONA	E	01W40 42N50	D 9	5	7.4				A	60	5	0000—2400	19
21	S	PUERTOLLANO	E	04W10 38N40	D 9	5	7.4				A	60	4	0000—2400	19
22	S	SEVILLA	E	06W00 37N20	D 9	25	14.4				A	60	3	0000—2400	19
23	S	TORTOSA	E	00E30 40N50	D 9	5	7.4				A	60	4	0000—2400	19
24		CALCUTTA	IND	88E21 23N01	A20	1000	33.4				A	152	3	0900—0300	
25		HISSAR	IND	75E48 29N00	A20	300	26.9				A	135	3	0300—0900	25
26		BANDJARMASIN	INS	114E33 03S22	A18	50	19.1				A	132	4	2100—1600	
27		BOJNURD	IRN	57E18 37N25	A20	20	13.6				A	81	3	0200—2100	
28		MIZPE RAMON	ISR	34E48 30N46	D 9	10	12.1				A		3	0000—2400	33
29		TOKYO	J	139E46 35N50	A15	100	22.1				A	137	4	0000—2400	
30		NAKURU	KEN	36E05 00S07	C 9	20	13.6				A	100	4	0000—2400	
31		KIMPO	KOR	126E35 37N35	C10	100	20.4	155	240— 70	9.0	B		5	2100—0800	7
32		KIMPO	KOR	126E35 37N35	C10	50	17.4	155	240— 70	9.0	B		5	0800—2100	
33		SULAIBIYA	KWT	47E53 29N16	A20	750	35.0	170	230—110	26.0	B		8	0000—2400	24
34		SAN	MLI	04W54 13N18	C 9	10	12.1				A	132		0600—2400	
35		TSETSERLIG	MNG	101E10 47N30	A18	5	9.1				A	120	5	2200—1500	
36		NAMPULA	MOZ	39E16 15S06	C10	50	17.4				A	66	4	0400—2200	
37		OGOJA	NIG	08E48 06N40	C 9	10	10.6				A	80	4	0500—2300	
38		QUEENSTOWN	NZL	168E41 45S03	A20	5	7.4				A	50	6	0000—2400	
39		KHOZDAR	PAK	66E30 27N28	A20	100	20.4				A	66	4	0000—2000	
40		BALABAC PALAW	PHL	117E04 07N53	C 9	1	0.6				A	82	3	2100—1600	
41		MALAYBALAY BUK	PHL	125E07 08N06	C 9	5	7.6				A	82	3	2100—1600	
42		MANILA	PHL	120E57 14N38	C 9	10	10.6				A	82	3	2100—1600	
43		MARINDUQUE	PHL	122E00 13N30	C 9	1	0.6				A	82	3	2100—1600	
44		KANCHANABURI	THA	99E23 14N03	A20	10	10.4				A	66	2	0000—2400	
45		LAMPANG	THA	99E29 18N17	A20	10	10.4				A	60	5	0000—2400	
46		TAKUA PA	THA	98E20 08N51	A20	10	10.4				A	66	3	0000—2400	
47		DJES KAZGAN	URS	67E30 47N30	A16	25	14.0				A	190	4	0000—2400	
48		TROITSKOE	URS	136E34 49N30	A18	50	17.0				A	190	4	0000—2400	
49	S	BIOGRAD NM	YUG	15E31 43N57	D 9	1200	35.8	135			B		4	0000—2400	45
50	S	BIOGRAD NM	YUG	15E31 43N57	D 9	1200	35.8	315			B				
51	S	DEANOVAC	YUG	16E29 45N42	D 9	150	23.9				A	140	3	0000—2400	
52	S	DUBROVNIK	YUG	18E07 42N39	D 9	2	3.0				A	65	4	0000—2400	46
53	S	TOVARNIK	YUG	19E09 45N11	D 9	300	26.9				A	140	3	0000—2400	
54	S	UCKA	YUG	14E12 45N17	D 9	20	13.4				A	60	4	0000—2400	46



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1143		GJIROKASTER	ALB	20E10 40N04	A20	20	15.1				A	132	5	0400—2300	
2	(69)		LES TREMBLES	ALG	00W37 35N41	D 9	40	18.1				A	130	4	0600—2400	24
3			NEWCASTLE NSW	AUS	151E42 32S52	A20	5	7.4				A	65	3	0000—2400	
4			LANDECK	AUT	10E33 47N08	D 9	0.1	−10.0				A	15	6	0000—2400	
5			SCHEIFLING	AUT	14E25 47N09	D 9	0.1	−10.0				A	15	6	0000—2400	
6			ZWETTL	AUT	15E10 48N36	D 9	0.1	−10.0				A	15	6	0000—2400	
7			SYLHET	BGD	92E00 25N00	A20	10	10.4				A	67	3	0000—1800	
8			DONGSHENG	CHN	110E00 39N49	A20	10	10.4				A	70	4	2000—1800	
9		S	JINGDONG	CHN	100E45 24N24	A20	50	17.4				A	70	5	2000—1800	
10		S	PUER	CHN	101E02 22N57	A20	50	17.4				A	70	5	2000—1800	
11		S	TENGCHONG	CHN	98E20 25N00	A20	50	18.0	120	250—280	11.0	B		5	2000—1800	
12			WANGQING	CHN	129E46 43N18	A20	0.1	−10.0				A	45	4	2000—1800	
13		S	WENSHAN	CHN	104E15 23N22	A20	50	17.4				A	70	5	2000—1800	
14			BOUNDJI	COG	15E29 01S20	A20	5	7.4				A	66	9	0000—2400	
15		S	BAD KISSINGEN	D	10E05 50N13	D 9	0.3	−4.8				A	49	4	0000—2400	
16		S	BAMBERG	D	10E53 49N53	D 9	0.3	−4.8				A	40	4	0000—2400	
17		S	BITBURG EIFEL	D	06E32 49N56	D 9	0.3	−4.8				A	54	5	0000—2400	
18			BREMERHAVEN	D	08E34 53N34	D 9	5	7.4				A	65	3	0000—2400	
19		S	FULDA	D	09E40 50N33	D 9	0.3	−4.8				A	54	4	0000—2400	
20		S	GIESSEN	D	08E42 50N36	D 9	0.3	−4.8				A	61	4	0000—2400	
21		S	GOEPPINGEN	D	09E40 48N42	D 9	0.3	−4.8				A	37	4	0000—2400	
22		S	HEIDELBERG	D	08E39 49N26	D 9	1	0.4				A	65	4	0000—2400	
23		S	HERSFELD	D	09E44 50N52	D 9	0.3	−5.2				A	25	4	0000—2400	
24		S	HOF SAALE	D	11E54 50N19	D 9	1	0.4				A	45	4	0000—2400	
25		S	KARLSRUHE	D	08E26 49N02	D 9	1	0.4				A	61	4	0000—2400	
26		S	SCHWEINFURT	D	10E14 50N02	D 9	0.3	−4.8				A	40	4	0000—2400	
27		S	STUTTGART HIR	D	09E02 48N50	D 9	10	10.4				A	40	4	0000—2400	
28		S	ULM	D	09E59 48N26	D 9	1	0.4				A	40	4	0000—2400	
29		S	WERTHEIM	D	09E30 49N45	D 9	0.3	−4.8				A	45	4	0000—2400	
30		S	WILDFLECKEN	D	09E52 50N22	D 9	0.3	−4.8				A	45	4	0000—2400	
31		S	WUERZBURG	D	09E56 49N47	D 9	0.3	−4.8				A	40	4	0000—2400	
32		S	EL MINYA	EGY	30E33 28N07	D 9	20	13.6				A	100	3	0000—2400	18/TUR 24
33		S	IDFU	EGY	32E49 25N00	D 9	20	13.6				A	100	3	0000—2400	18/TUR 24
34		S	SOHAG	EGY	31E43 26N27	D 9	20	13.6				A	100	3	0000—2400	18/TUR 24
35			GORE	ETH	35E32 08N09	C 9	10	10.4				A	64	3	0400—2100	
36			TELIMELE	GUI	13W02 11N00	C 9	20	13.4				A	65	4	0000—2400	
37			DORI	HVO	00W01 14N02	A20	30	16.9				A	131	4	0000—2400	18/NIG
38			C VATICANO	I	15E51 38N37	D 9	65	21.6	220	70— 90	16.5	B		2	0000—2400	41/MESSINA
39			C VATICANO	I	15E51 38N37	D 9	65	21.6	220	120—130	20.0	B				
40			C VATICANO	I	15E51 38N37	D 9	65	21.6	220	350— 20	16.5	B				
41			MESSINA	I	15E32 38N11	D 9	6	8.0				A	62	5	0000—2400	42/C VATICANO
42			RATNAGIRI 1	IND	73E22 17N00	A20	300	26.9				A	130	3	0300—1000	25
43			RATNAGIRI 2	IND	73E22 17N00	A20	20	15.1				A	130	3	1000—0300	
44			ROHTAK	IND	76E27 28N56	A20	20	15.1				A	135	3	0000—2400	
45			WESTPORT	IRL	09W31 53N48	A20	50	17.6				A	75	4	0000—2400	
46			YASOJ	IRN	51E35 30N39	A20	20	13.6				A	83	3	0200—2100	
47			KYOTO	J	135E45 34N52	A15	20	15.1				A	141	5	0000—2400	
48			JEJU	KOR	126E46 33N33	C10	100	20.4	0	90—280	9.0	B		5	2100—0800	7
49			JEJU	KOR	126E46 33N33	C10	50	24.0	0	90—280	9.0	B		5	0800—2100	
50			NOSY VARIKA	MDG	48E24 20S40	C 9	5	9.1				A	131	4	0300—2000	
51			KUANTAN	MLA	103E21 03N48	A20	10	10.6				A	100	5	2200—1700	
52			KONTAGORA	NIG	05E28 10N24	C 9	10	10.6				A	100	4	0500—2300	18/HVO
53			WARRI	NIG	05E45 05N31	C 9	50	17.6				A	80	4	0500—2300	18/HVO
54			DHALKEBAR	NPL	86E02 26N58	A20	10	10.4				A	60	4	2200—1900	



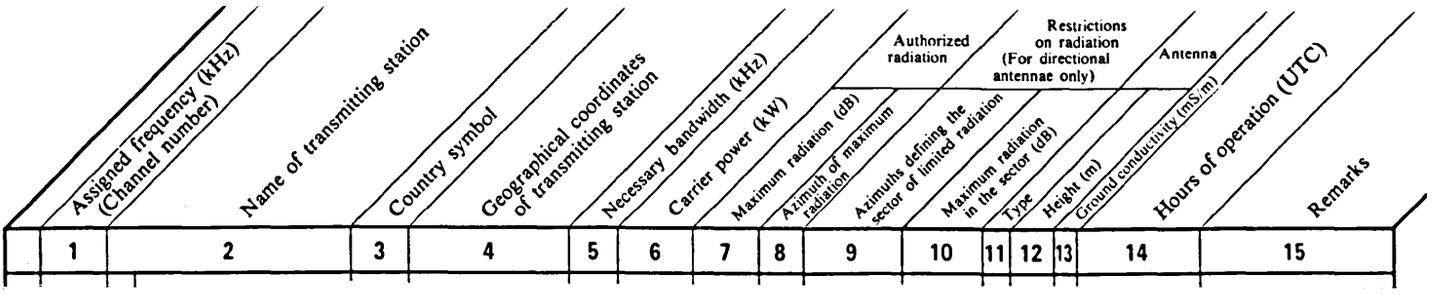
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1143		HAMILTON	NZL	175E20 37S48	A20	2	3.4				A	50	3	0000—2400	
2	(69)		PORO LA UNION	PHL	120E17 16N37	D 9	1000	34.0	260	0— 40	17.0	B		3	1000—1600	
3			BANGKOK	THA	100E29 13N45	A20	25	14.4				A	48	2	0000—2400	
4		S	ADANA	TUR	35E20 36N59	D 9	100	22.1				A	130	4	0200—2300	18/EGY
5		S	MANAVGAT	TUR	31E26 37N47	D 9	100	22.1				A	131	4	0200—2300	18/EGY
6		S	MARDIN	TUR	40E44 37N19	D 9	100	22.1				A	130	4	0200—2300	18/EGY
7			DUCHANBE	URS	68E49 38N34	A16	150	21.8				A	190	4	0000—2400	
8			KALININGRAD	URS	20E35 54N43	A16	150	21.8				A	190	4	0000—2400	
9			TAICHET	URS	98E01 55N57	A18	50	17.0				A	190	4	0000—2400	
10			ULIANOVSK	URS	48E05 54N19	A16	100	20.0				A	190	4	0000—2400	
11		S	NOVA GRADISKA	YUG	17E15 45N11	D 9	100	22.0	25	170—250	17.0	B		3	0000—2400	
12		S	OTOCAC	YUG	15E15 44N52	D 9	20	13.4				A	65	4	0000—2400	
13			MBALA	ZMB	31E30 09S03	A20	10	12.1				A	132	4	0200—2100	



1152 KHZ (70)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1152		HAQL	ARS	34E55 29N20	C 9	20	15.1				A	120	4	0400—1400	24
2	(70)		WAGGAWAGGA NSW	AUS	147E25 35S02	A20	5	9.1				A	111	3	1900—1400	
3			HORTA	AZR	28W36 38N32	A20	1	0.4				A	60	4	0000—2400	
4			RANGOON	BRM	96E10 16N52	A20	1	0.4				A	62	3	1100—1500	
5		S	CHALING	CHN	113E33 26N48	A20	20	13.4				A	70	4	2000—1800	
6		S	CHANGDE SHI	CHN	111E42 29N02	A20	50	17.4				A	70	4	2000—1800	
7		S	JIANGHUA	CHN	111E46 24N57	A20	20	13.4				A	70	4	2000—1800	
8		S	LINGLING	CHN	111E37 26N13	A20	20	13.4				A	70	4	2000—1800	
9			LUDA	CHN	121E30 38N54	A20	5	7.4				A	70	4	2000—1800	
10		S	SHUANGFENG	CHN	112E11 27N27	A20	10	10.4				A	70	4	2000—1800	
11			TONGLIAO SHI	CHN	122E13 43N40	A20	50	17.0	230	10— 90	7.0	B		4	2000—1800	
12		S	XUPU	CHN	110E35 27N55	A20	20	13.4				A	70	4	2000—1800	
13			BAMENDA	CME	10E59 06N00	C 9	30	16.9				A	130	4	0500—2300	
14			LABASA	FJI	179E22 16S25	A20	2.5	4.0				A	30	3	1700—1200	
15			BIRMINGHAM	G	01W46 52N34	A20	1	8.0	215	290—291	—3.0	B		3	0000—2400	
16			GLASGOW	G	04W10 55N48	A20	2	7.0	315			B		4	0000—2400	
17			LONDON 1	G	00W14 51N39	A20	5.5	14.0	160	270—320	—8.0	B		3	0000—2400	
18			MANCHESTER	G	02W07 53N29	A20	1	6.0	250			B		3	0000—2400	
19			PLYMOUTH	G	04W08 50N24	A20	0.5	—2.6				A	34	5	0000—2400	
20			TYNESIDE	G	01W46 54N57	A20	1	4.0	70			B		3	0000—2400	
21			KAVARATHY I	IND	72E42 10N36	A20	20	15.1				A	130	3	0000—2400	
22			MYSORE	IND	76E42 12N18	A20	300	26.9				A	130	3	0300—1000	25
23			RANCHI 1	IND	85E23 23N23	A20	20	15.1				A	130	3	0300—0900	25
24			RANCHI 2	IND	85E23 23N23	A20	10	12.1				A	130	3	0900—0300	
25			TABRIZ	IRN	46E15 38N08	A20	100	22.1				A	131	2	0100—2200	
26			TIRAT ZEVI	ISR	35E30 32N29	D 9	10	12.1				A		3	0000—2400	33
27			KOCHI	J	133E36 33N34	A15	10	10.6				A	93	4	0000—2400	
28			KUSHIRO	J	144E25 42N59	A15	10	13.4				A	152	4	0000—2400	
29			MIYAKO OKINAWA	J	125E17 24N47	A15	0.1	—10.0				A	30	5	0000—2400	
30			TSUYAMA	J	134E01 35N03	A15	0.1	—9.6				A	67	5	0000—2400	
31			NAIROBI	KEN	36E55 01S35	C 9	100	20.6				A	100	4	0000—2400	
32			KWANGJU	KOR	126E55 35N08	C10	0.3	—5.2				A	24	4	0000—2400	
33			WEONJU	KOR	127E57 37N21	C10	10	12.1				A	120	6	0000—2400	
34			HOCHON	KRE	128E36 40N41	A16	1	0.0				A	30		2000—1800	
35			VOINJAMA	LBR	09W45 08N25	A20	10	10.4				A	65	5	0500—2400	
36			KOBDO	MNG	91E48 48N10	A18	5	9.1				A	120	5	2200—1500	
37			MARRAKECH	MRC	07W59 31N37	A20	20	13.4				A	60	5	0600—2400	24
38			AKURE	NIG	05E12 07N15	C 9	50	17.6				A	80	4	0500—2300	
39			TIMARU	NZL	171E16 44S21	A20	5	7.4				A	50	4	0000—2400	
40			RAWALPINDI	PAK	73E06 33N37	A20	10	10.4				A	70	3	0000—2000	
41			TAG BOHOL	PHL	123E51 09N38	C 9	1	0.6				A	79	3	2100—1600	
42		S	CLUJ	ROU	23E37 46N47	A20	950	33.0	185	270—290	20.0	B		5	0000—2400	
43		S	CLUJ	ROU	23E37 46N47	A20	950	33.0	0	80—100	20.0	B				
44		S	TURNU SEVERIN	ROU	22E42 44N36	A20	50	17.4				A	60	5	0300—2300	
45			BOSASO	SOM	49E10 11N20	A18	50					B		4	0300—2100	
46			CHIANG MAI	THA	98E57 18N42	A20	20	13.4				A	65	5	0000—2400	
47			BAUCAU	TMP	126E28 08S28	A20	10	10.4				A	70	3	2200—1800	
48			AL NAKHIL	UAE	56E02 25N56	C 9	100	23.0	248	40—110	17.0	B		6	0200—2200	24
49			AL NAKHIL	UAE	56E02 25N56	C 9	100	23.0		180—210	7.0	B				
50			AL NAKHIL	UAE	56E02 25N56	C 9	100	23.0		280—350	6.0	B				
51			KHANTYMANSIISK	URS	69E03 60N57	A16	25	14.0				A	190	4	0000—2400	
52			KOMSOMOLSKAMUR	URS	137E05 50N30	C 9	30	19.8	20	150—250	7.8	B		4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1161		HUAMBO	AGL	15E45 12S47	C10	10	10.4				A	65	3	0500—2300	
2	(71)		IN SALAH	ALG	02E31 27N15	D 9	20	13.4				A	65	5	0600—2400	24
3			JOWF	ARS	39E55 29N45	C 9	20	15.1				A	120	4	0400—1400	24
4			JOWF	ARS	39E55 29N45	C 9	10	12.1				A	120	4	1400—2300	24
5		S	CRYSTAL BRK SA	AUS	138E15 33S21	A20	10	10.0				A	183	2	1900—1400	
6			FINGAL TAS	AUS	147E52 41S41	A20	1					B		5	1900—1400	
7			MARYBOROUGH QL	AUS	152E44 25S28	A20	5	7.4				A	63	4	1900—1400	
8		S	NARACOORTE SA	AUS	140E40 36S57	A20	10					B		2	1900—1400	
9			DASSAZOUME	BEN	02E12 07N44	C10	10	10.4				A	65	4	0500—2400	
10			RANGAMATI	BGD	92E12 22N38	A20	10	12.1				A	122	3	0000—1800	
11		S	BIALA SLATINA	BUL	23E40 43N27	C 9	150	23.9				A	140	4	0000—2400	
12		S	KARDJALI	BUL	25E12 41N29	C 9	150	21.8				A	205	5	0000—2400	
13			KEMBE	CAF	21E55 04N36	C 9	10	10.4				A	64	5	0400—2300	
14		S	CHENGKOU	CHN	108E47 31N57	A20	10	10.4				A	70	4	2000—1800	
15		S	FENGJIE	CHN	109E31 31N04	A20	10	10.4				A	70	4	2000—1800	
16		S	GARZE	CHN	99E58 31N38	A20	10	10.4				A	70	4	2000—1800	
17		S	KANGDING	CHN	102E00 30N00	A20	10	10.4				A	70	4	2000—1800	
18		S	LESHAN	CHN	103E40 29N37	A20	10	10.4				A	70	4	2000—1800	
19		S	LUZHOU	CHN	105E21 28N47	A20	10	10.4				A	70	4	2000—1800	
20		S	NANCHONG SHI	CHN	106E05 30N48	A20	50	17.4				A	70	4	2000—1800	
21			NANNING	CHN	108E18 22N48	A20	1	0.4				A	50	4	2000—1800	
22		S	SERXU	CHN	98E05 32N58	A20	10	10.4				A	70	4	2000—1800	
23		S	XIANGCHENG	CHN	99E42 28N55	A20	10	10.4				A	70	4	2000—1800	
24		S	ZHAOJUE	CHN	102E49 28N02	A20	25	14.4				A	70	4	2000—1800	
25			TANTA	EGY	30E57 30N45	D 9	200	23.4				A	60	3	0000—2400	24
26			ADDIS ABABA	ETH	38E43 09N17	C 9	10	10.4				A	64	3	0400—2100	
27		S	AJACCIO	F	08E46 41N46	D 9	20	13.4				A	50	6	0000—2400	
28		S	CORTE	F	09E10 42N20	D 9	20	15.1				A	120	6	0000—2400	
29		S	STRASBOURG	F	07E26 48N15	D 9	300	30.0	20	90—130	18.0	B		4	0000—2400	
30		S	TOULOUSE	F	01E20 43N21	D 9	100	22.1				A	132	3	0000—2400	
31		S	TAMMISAARI	FNL	23E27 59N59	D 9	10	10.6				A	100	4	0000—2400	
32		S	VAASA 2	FNL	21E38 63N10	D 9	100	23.4				A	150	4	0000—2400	
33			DUNDEE	G	02W56 56N27	A20	1	—1.9				A	46	4	0000—2400	
34			SWINDON	G	01W48 51N36	A20	0.5	—2.8				A	55	4	0000—2400	
35			TEZPUR	IND	92E42 26N48	A20	300	26.9				A	130	3	0300—0900	25
36			TRIVANDRUM 1	IND	76E59 08N29	A20	20	15.1				A	130	4	0300—1000	25
37			TRIVANDRUM 2	IND	76E59 08N29	A20	10	12.1				A	130	4	1000—0300	
38			KENDARI	INS	122E36 03S57	A18	5	7.4				A	64	5	2100—1600	
39			ABADAN	IRN	48E15 30N22	A20	10	10.4				A	65	2	0200—2100	
40			ATAMI	J	139E05 35N05	A15	0.1	—9.6				A	72	5	0000—2400	
41			FUKUYAMA	J	133E21 34N30	A15	0.1	—9.6				A	71	5	0000—2400	
42			IKEDA TOKUSHIM	J	133E49 34N02	A15	0.1	—9.6				A	67	5	0000—2400	
43			IMAGANE	J	139E58 42N25	A15	0.1	—9.6				A	71	5	0000—2400	
44			KESENNUMA	J	141E34 38N54	A15	0.1	—9.6				A	67	5	0000—2400	
45			KOZA	J	135E50 33N31	A15	0.1	—9.6				A	71	5	0000—2400	
46			MATSUMAE	J	140E05 41N26	A15	0.1	—9.6				A	71	5	0000—2400	
47			MIYAKONOJO	J	131E05 31N46	A15	0.1	—9.6				A	47	5	0000—2400	
48			NAKATSUGAWA	J	137E29 35N29	A15	0.1	—9.6				A	67	5	0000—2400	
49			NARUKO	J	140E44 38N45	A15	0.1	—9.6				A	71	5	0000—2400	
50			OBAMA FUKUI	J	135E45 35N30	A15	0.1	—9.6				A	67	5	0000—2400	
51			ODATE	J	140E34 40N16	A15	0.1	—9.6				A	67	5	0000—2400	
52			OWASE	J	136E12 34N04	A15	0.1	—9.6				A	67	5	0000—2400	
53			RUMOI	J	141E39 43N56	A15	0.1	—9.6				A	47	5	0000—2400	
54			SAEKI	J	131E55 32N58	A15	0.1	—9.6				A	47	5	0000—2400	



1161 KHZ (71)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1161		SHIROTORI	J	136E52 35N51	A15	0.1	−9.6				A		5	0000−2400	
2	(71)		SHOBARA	J	133E02 34N51	A15	0.1	−9.6				A	47	5	0000−2400	
3			TANABE	J	135E24 33N45	A15	0.1	−9.6				A	67	5	0000−2400	
4			TOYOHASHI	J	137E22 34N46	A15	0.1	−9.6				A	71	5	0000−2400	
5			TOYOOKA	J	134E50 35N32	A15	0.1	−9.6				A	67	5	0000−2400	
6			TSUNAN	J	138E41 37N02	A15	0.1	−9.6				A		5	0000−2400	
7			UENO	J	136E08 34N45	A15	0.1	−9.6				A	47	5	0000−2400	
8			WAKAMATSU	J	139E57 37N29	A15	0.1	−9.6				A	67	5	0000−2400	
9			YUSUHARA	J	132E56 33N23	A15	0.1	−9.6				A	71	5	0000−2400	
10			PUSAN	KOR	129E07 35N08	C10	20	15.1				A	120	4	0000−2400	
11			UIJONGBU	KOR	127E01 37N44	C10	0.3	−5.2				A	12	4	0000−2400	
12			SANGWON	KRE	126E06 38N51	A16	10	10.6				A	75		2000−1800	
13			PT SANTO 3	MDR	16W20 33N04	A20	1	0.4				A	60	4	0000−2400	
14			MALACCA	MLA	102E15 02N14	A20	10	10.4				A	61	5	2200−1700	
15			SIMANGGANG	MLA	111E27 01N14	A20	20	15.1				A	137	5	2200−1600	
16		S	BARUNURT	MNG	113E20 46N40	A18	5	9.1				A	120	4	2200−1500	
17		S	MANDAL GOBI	MNG	106E10 45N40	A18	5	9.1				A	120	4	2200−1500	
18			TETE	MOZ	33E35 16S11	C10	10	10.4				A	66	4	0400−2200	
19			WELLINGTON	NZL	174E48 41S18	A20	5	7.4				A	50	4	0000−2400	
20			CAMARINES NO	PHL	122E56 14N07	C 9	1	0.6				A	80	3	2100−1600	
21			DIGOS DAVAO	PHL	125E21 06N45	C 9	1	0.6				A	80	3	2100−1600	
22			ILOILO CITY	PHL	122E33 10N41	C 9	1	0.6				A	80	3	2100−1600	
23			VELINGARA	SEN	14W06 13N09	C 9	10	10.4				A	50	4	0600−2400	
24			NAKHON PHANOM	THA	104E42 17N15	A20	10	10.4				A	64	3	0000−2400	
25			KARS	TUR	43E05 40N35	D 9	10	10.4				A	54	4	0200−2300	
26			MBALE	UGA	34E10 01N05	C 9	10	10.4				A	55	4	0300−2100	
27			ABAKAN	URS	91E11 53N46	A16	50	17.0				A	190	4	0000−2400	
28			DUCHANBE	URS	68E50 38N40	C 9	1000	38.0	15	120−290	20.0	B		4	0000−2400	
29			KOVIN	YUG	20E59 44N45	D 9	0.1	−9.6				A	25	3	0800−1500	7
30			ZENICA	YUG	17E46 44N15	D 9	2	3.6				A	50	4	0800−1500	7
31			MATADI	ZAI	13E26 05S48	C 9	50					B		8	0000−2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1170		MALANGE	AGL	16E22 09S33	C10	5	7.4				A	65	3	0600—2100	
2	(72)		PESHKOPI	ALB	20E20 41N40	A20	1	0.4				A	64	6	0400—2300	
3			LES TREMBLES	ALG	00W37 35N41	D 9	40	16.6				A	90	4	0600—1800	24
4			LES TREMBLES	ALG	00W37 35N41	D 9	20	13.6				A	90	4	1800—2400	24
5			GURIAT	ARS	37E25 31N25	C 9	500	33.0	270	10—170	12.0	B		4	0000—2400	24
6			CHARTERS T QLD	AUS	146E17 20S04	A20	0.2	—7.0				A	60	3	1900—1400	
7			SYDNEY NSW	AUS	151E03 33S46	A20	5	9.1				A	135	4	0000—2400	
8			S CRUZ	AZR	28W01 39N03	A20	1	0.0				A	70	4	0000—2400	
9			NGOZI	BDI	29E50 02S54	C 9	10	10.4				A	64	4	0300—2400	
10			DACCA	BGD	90E26 23N43	A20	20	13.6				A	92	3	0000—1800	
11		S	MOGHILEV	BLR	30E17 53N55	A16	1000	33.0	120	260—330	24.0	B		4	0000—2400	
12			QABDO	CHN	97E05 31N11	A20	200	25.1				A	140	5	2000—1800	
13			WEIHAI	CHN	122E07 37N31	A20	0.1	—10.0				A	45	4	2000—1800	
14			KOTUGODA	CLN	79E55 07N08	C10	100	23.0	40			B		5	0000—1800	
15			SIBITI	COG	13E50 03S45	A20	10	10.4				A	64	5	0000—2400	
16		S	ERFURT	DDR	11E00 51N00	D 9	20	13.6				A	90	4	0000—2400	
17		S	REICHENBACH	DDR	14E48 51N08	D 9	4	6.4				A	50	4	0000—2400	
18			DJIBOUTI 1	DJI	43E05 11N35	A20	10	10.4				A	50	3	0000—2400	
19			IPSWICH	G	01E14 52N04	A20	0.5	—2.6				A	53	3	0000—2400	
20			PORTSMOUTH	G	01W02 50N50	A20	0.8	—0.6				A	46	4	0000—2400	
21			STOKE ON TRENT	G	02W12 52N59	A20	0.4	—3.6				A	43	3	0000—2400	
22			SWANSEA	G	03W55 51N39	A20	0.8	—0.6				A	46	4	0000—2400	
23			TEES SIDE	G	01W21 54N35	A20	1	0.4				A	34	3	0000—2400	
24			NSUTA	GHA	02W00 05N15	C 9	10	10.0				A	280	4	0500—2300	
25		S	BOLZANO	I	11E20 46N30	D 9	2	3.4				A	62	5	0000—2400	
26		S	BRESSANONE	I	11E39 46N43	D 9	1	0.4				A	50	5	0000—2400	
27		S	LIVORNO	I	10E19 43N33	D 9	1	0.4				A	50	5	0000—2400	
28		S	MERANO	I	11E09 46N40	D 9	1	0.4				A	50	5	0000—2400	
29			HYDERABAD 1	IND	78E30 17N20	A20	20	15.1				A	130	3	0300—1000	25
30			HYDERABAD 2	IND	78E30 17N20	A20	10	12.1				A	130	3	1000—0300	
31			SEMARANG	INS	110E29 06S58	A18	50	17.4				A	64	5	2200—1700	
32			TERNATE	INS	127E23 00N48	A18	2	3.4				A	64	6	2000—1500	
33			DAMGHAN	IRN	54E21 36N18	A20	2	3.6				A	88	3	0200—2100	
34			JERUSALEM	ISR	35E13 31N46	D 9	10	10.4				A	45	3	0000—2400	33
35			LAMU	KEN	40E52 02S20	C 9	5	7.6				A	100	4	0000—2400	
36			SOSAN	KOR	126E55 36N56	C10	500	27.6				A	100	5	2300—1100	
37			SOSAN	KOR	126E55 36N56	C10	500	31.0	115	190—290	17.0	B		5	1100—2300	
38			SOSAN	KOR	126E55 36N56	C10	500	31.0	355			B				
39			KOKSAN	KRE	126E40 38N48	A16	1	0.0				A	30		2000—1800	
40			TULEAR	MDG	43E46 23S28	C 9	5	9.1				A	136	4	0300—2000	
41			ATAR	MTN	13W03 20N31	B20	20	15.1				A	128		0600—2400	24
42			CALABAR	NIG	08E19 04N58	C 9	50	19.1				A	128	4	0500—2300	
43			TE KUITI	NZL	175E10 38S20	A20	1	0.4				A	50	5	0000—2400	
44			DERAISMAILKHAN	PAK	71E00 31N55	A20	10	10.4				A	70	3	0000—2000	
45			COTABATO CITY	PHL	124E14 07N12	C 9	1	0.6				A	79	3	2100—1600	
46			MUNTI RIZAL	PHL	121E02 14N25	C 9	10	10.6				A	79	3	2100—1600	
47		S	BRAGANCA	POR	06W45 41N48	A20	1	0.4				A	60	6	0000—2400	
48		S	PORTO	POR	08W38 41N11	A20	10	10.4				A	60	3	0000—2400	
49		S	V REAL	POR	07W43 41N16	A20	10	10.6				A	90	5	0000—2400	
50		S	VALENCA	POR	08W39 42N01	A20	10	10.6				A	90	5	0000—2400	
51			N DJAMENA	TCD	15E03 12N08	C 9	20	13.6				A	83		0400—2300	
52			NJOMBE	TGK	34E48 09S28	C 9	5	9.1				A	128	4	0300—2100	
53			BANGKOK	THA	100E35 13N48	A20	20	13.4				A	65	2	0000—2400	
54			RAS AL KHAYMAH	UAE	55E58 25N49	C 9	50	19.1				A	136	5	0200—2100	24

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1170 KHZ (72)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1170	S	LUTSK	UKR	25E00 50N50	A16	50	17.0				A	190	4	0000—2400	
2	(72)	S	MAIKOP	URS	40E08 44N36	A16	500	32.0	220	70—140	16.0	B		4	0000—2400	
3			ULAN UDE	URS	107E38 51N50	A16	250	27.0	0	130—230	20.0	B		4	0000—2400	
4			BACKA TOPOLA	YUG	19E40 45N49	D 9	0.1	−9.6				A	45	4	0800—1500	7
5			BELI KRIZ 2	YUG	13E35 45N31	D 9	50	17.0	320	40— 90	5.0	B		4	0000—2400	
6			VRNJACKA BANJA	YUG	20E55 43N36	D 9	2	3.6				A	45	4	0800—1500	7

1	Assigned frequency (kHz) (Channel number)		2 Name of transmitting station	3 Country symbol	4 Geographical coordinates of transmitting station	5 Necessary bandwidth (kHz)	6 Carrier power (kW)	Authorized radiation: 7 Maximum radiation (dB)	Authorized radiation: 8 Azimuth of maximum radiation	Authorized radiation: 9 Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): 10 Maximum radiation in the sector (dB)	Antenna: 11 Type	Antenna: 12 Height (m)	Antenna: 13 Ground conductivity (mS/m)	14 Hours of operation (UTC)	15 Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

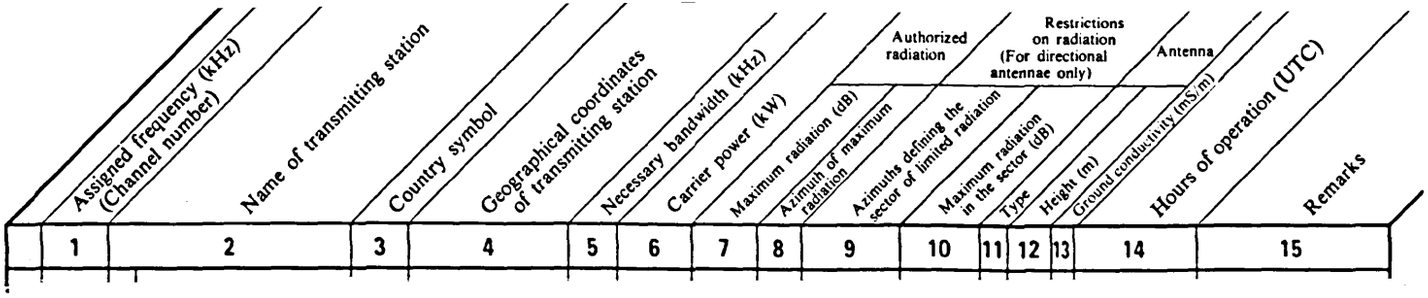
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1179		HARAD	ARS	49E05 24N10	C 9	20	15.1				A	120	4	0000—2400	24
2	(73)		MELBOURNE VIC	AUS	145E07 37S44	A20	5	9.1				A	136	2	0000—2400	
3		S	ALXA ZUOQI	CHN	105E41 38N50	A20	20	13.4				A	70	4	2000—1800	
4		S	GUYUAN	CHN	106E22 36N01	A20	100	22.1				A	140	4	2000—1800	
5			LIANYUNGANG	CHN	119E10 34N36	A20	0.5	−3.0				A	40	3	2000—1800	
6		S	YANCHI	CHN	107E30 37N47	A20	20	13.4				A	70	4	2000—1800	
7		S	ZHONGWEI	CHN	105E11 37N30	A20	50	17.4				A	70	4	2000—1800	
8			BUEA	CME	09E06 04N09	C 9	100	22.1				A		5	0500—2300	
9			BARCELONA	E	02E09 41N25	D 9	5	7.4				A	80	5	0000—2400	
10			MURCIA	E	01W10 38N01	D 9	5	7.4				A	50	4	0000—2400	
11		S	ASSWAN	EGY	32E57 24N04	D 9	10	10.6				A	100	3	0000—2400	24
12		S	ASYUT	EGY	31E04 27N11	D 9	10	10.6				A	100	3	0000—2400	24
13		S	KENA	EGY	32E43 26N10	D 9	10	10.6				A	100	3	0000—2400	24
14			BAHAR DAR	ETH	37E27 11N20	C 9	10	10.4				A	64	3	0400—2100	
15			THESSALONIKI	GRC	22E57 40N34	C 9	100	20.6				A	75	4	0400—2300	
16			JUBBULPORE	IND	79E59 23N10	A20	20	15.1				A	125	3	0000—2400	
17			PALGHAT	IND	76E42 10N48	A20	20	15.1				A	125	4	0300—1000	25
18			PADANG	INS	100E25 01S00	A18	10	10.4				A	64	5	2200—1700	
19			OSAKA	J	135E27 34N31	A15	50	19.1				A	110	4	0000—2400	
20			MARALAL	KEN	36E40 01N05	C 9	5	7.6				A	100	4	0000—2400	
21			YECHEON	KOR	128E27 36N38	A10	1	2.1				A	120	6	0000—2400	
22			JONGJU	KRE	125E12 39N44	A16	100	24.0				B		6	2000—1800	
23			DELIMARA	MLT	14E34 35N49	D 9	600	35.0	240	340—150	8.0	B		4	0000—2400	
24			QUELIMANE	MOZ	36E53 17S52	C10	50	17.3	310			B		4	0400—2200	
25		S	BAYUGAN	PHL	125E50 08N20	C 9	10	10.6				A	79	3	2100—1600	
26		S	BOGO	PHL	124E00 11N00	C 9	10	10.6				A	79	3	2100—1600	
27		S	KABASALAN	PHL	122E50 07N48	C 9	10	10.6				A	79	3	2100—1600	
28		S	KALINANGAN	PHL	124E48 08N30	C 9	10	10.6				A	79	3	2100—1600	
29		S	SIQUIJOR	PHL	123E38 09N12	C 9	10	10.6				A	79	3	2100—1600	
30		S	TANDAG	PHL	126E12 08N55	C 9	10	10.6				A	79	3	2100—1600	
31		S	BACAU	ROU	26E50 46N30	A20	200	25.0	210	250—350	15.0	B		5	0000—2400	
32		S	BACAU	ROU	26E50 46N30	A20	200	25.0	30	70—170	15.0	B				
33		S	SEGARCEA	ROU	23E48 44N05	C 9	5	7.6				A	88	3	0300—2300	
34		S	VASCAU	ROU	22E28 46N25	C 9	5	7.6				A	88	4	0300—2300	
35			HOERBY	S	13E44 55N49	D 9	100	22.3				A	130	4	0000—2400	42/SKAANE
36			SKAANE	S	14E18 55N29	D 9	1200	33.0	80	125—155	26.0	B		3	0000—2400	41/HOERBY
37			SKAANE	S	14E18 55N29	D 9	1200	33.0	260	155—220	28.0	B				
38			CHANDHABURI	THA	102E50 12N37	A20	10	10.4				A	65	3	0000—2400	
39			VAN ISKELESI	TUR	43E19 38N31	D 9	2	3.4				A	63	4	0200—2300	
40			PETROPAVLO KAZ	URS	69E08 54N53	C10	150	21.8				A	190	4	0000—2400	
41			PT VILA	VUT	168E18 17S45	A20	20	13.4				A	50	1	0000—2400	
42			SAMOBOR	YUG	15E42 45N48	D 9	1	0.4				A	40	4	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1188 KHZ (74)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1188		EXMOUTH WA	AUS	114E07 21S57	A20	5	7.6				A	87	2	2200—1600	
2	(74)		INVERELL NSW	AUS	151E13 29S47	A20	5	7.6				A	102	5	1900—1400	
3			KORTRIJK	BEL	03E17 50N49	D 9	150	22.2				A	65	4	0600—1800	
4			KORTRIJK	BEL	03E17 50N49	D 9	50	17.4				A	65	4	1800—0600	
5		S	EJENHORO QI	CHN	109E41 39N15	A20	10	10.4				A	60	4	2000—1800	
6			KUNMING	CHN	102E50 25N10	A20	300	26.9				A	120	5	2000—1800	
7		S	LINHE	CHN	107E20 40N44	A20	50	17.4				A	60	4	2000—1800	
8		S	SUNID YOUQI	CHN	113E35 43N45	A20	20	13.4				A	60	4	2000—1800	
9		S	XI UJUMQIN QI	CHN	117E33 44N38	A20	50	17.4				A	60	4	2000—1800	
10		S	ZHENGLAN QI	CHN	116E00 42N18	A20	10	10.4				A	60	4	2000—1800	
11			MOSSAKA	COG	16E48 01S13	A20	5	7.4				A	63		0000—2400	
12			SUEZ	EGY	32E31 30N00	D 9	20	15.1				A	125	4	0000—2400	
13			ADDIS ABABA	ETH	38E39 08N46	C 9	10	10.4				A	62	3	0400—2100	
14			KOS	GRC	27E05 36N47	C 9	10	10.4				A	55	5	0400—2200	
15		S	SZOLNOK	HNG	20E12 47N11	D 9	1000	32.1				A	125	3	0000—2400	
16		S	SZOMBATHELY	HNG	16E39 47N12	D 9	40	16.4				A	60	4	0000—2400	
17			OUAGADOUGOU	HVO	01W31 12N22	A20	10	10.4				A	63	4	0000—2400	
18		S	AVEZZANO	I	13E28 42N02	D 9	1	0.4				A	50	5	0000—2400	45
19		S	GENOVA	I	08E55 44N25	D 9	20	13.6				A	102	5	0000—2400	45
20		S	POTENZA	I	15E48 40N38	D 9	1	0.4				A	50	5	0000—2400	45
21		S	ROVERETO	I	11E04 45N53	D 9	1	0.4				A	50	5	0000—2400	45
22			S REMO	I	07E48 43N49	D 9	6	8.2				A	75	5	0000—2400	47
23		S	TERAMO	I	13E42 42N39	D 9	1	0.4				A	50	5	0000—2400	45
24			BOMBAY 1	IND	72E54 18N53	A20	300	26.9				A	125	3	0300—1000	25
25			BOMBAY 2	IND	72E54 18N53	A20	100	22.1				A	125	3	1000—0300	
26			SIMLA	IND	77E12 31N10	A20	300	26.9				A	125	4	0300—0900	25
27			MENADO	INS	124E55 01N32	A18	5	7.4				A	58	5	2100—1600	
28			CORK 1	IRL	08W24 51N53	A20	10	12.1				A	120	4	0000—2400	
29			TEHERAN	IRN	51E27 35N41	A20	100	22.1				A	140	3	0000—2400	
30			KITAMI	J	144E14 43N57	A15	10	12.1				A	136	4	0000—2400	
31			INCHEON	KOR	126E42 37N24	C10	50	19.1				A	129	5	2300—1100	
32			INCHEON	KOR	126E42 37N24	C10	50	20.0	120	270—320	10.0	B		5	1100—2300	
33			PT MONIZ 3	MDR	16W11 32N50	A20	1	0.4				A	60	4	0000—2400	
34			KANGAR	MLA	100E13 06N29	A20	10	12.1				A	120	5	2200—1700	
35			MARRUPA	MOZ	37E30 13S12	C10	2	3.4				A	63	4	0400—2200	
36			CASABLANCA	MRC	07W35 33N34	A20	3	5.4				A	80	4	0600—2400	
37			CHINGUETTI	MTN	12W20 20N28	B20	20	15.1				A	132		0600—2400	
38			JOS	NIG	08E53 09N52	C 9	20	13.6				A	75	4	0500—2300	
39			CABANATUAN NE	PHL	120E57 15N29	C 9	1	0.6				A	78	3	2100—1600	
40			TACLOBAN LEYTE	PHL	125E00 11N14	C 9	1	0.6				A	78	3	2100—1600	
41		S	GOROKA	PNG	145E23 06S05	B10	10	10.6				A	80	5	1900—1300	
42		S	KAINANTU	PNG	145E52 06S17	B10	2	3.0				A	30	5	1900—1300	
43		S	OKAPA	PNG	145E38 06S33	B10	2	3.0				A	30	5	1900—1300	
44			PALA	TCD	14E56 09N22	C 9	10	12.1				A			0400—2300	
45			MTWARA	TGK	40E00 10S20	C 9	20	13.6				A	80	4	0300—2100	
46			SAKON NAKHON	THA	104E10 17N15	A20	20	13.4				A	63	3	0000—2400	
47			USTKAMENOGORSK	URS	82E36 49N55	C10	30	14.8				A	190	4	0000—2400	
48			WALLIS	WAL	176W09 13S21	A20	20	13.4				A	50	1	0000—2400	
49			HISWA	YMS	44E54 12N48	C 9	200	25.1				A	130	4	0300—2200	
50			KALEMIE	ZAI	29E13 05S53	C 9	10	10.4				A	60	8	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1197		MOCAMEDES	AGL	12E10 15S10	A20	5	7.4				A	63	3	0000—2400	
2	(75)		JOBAIL	ARS	49E40 27N00	C 9	20	15.1				A	120	3	0000—2400	24
3			NAJMAH	ARS	50E04 26N42	A20	0.1	−10.0				A	24	3	0100—2400	24
4			RAS TANURA	ARS	50E05 26N40	A20	0.1	−10.0				A	24	3	0100—2400	24
5			ADELAIDE SA	AUS	138E35 34S50	A20	5	7.6				A	84	2	0000—2400	
6			GOLD COAST QLD	AUS	153E24 28S00	A20	5					B		4	1900—1400	
7		S	S CRUZ FLORES	AZR	31W08 39N27	A20	1	0.4				A	60	4	0000—2400	
8		S	V DO PORTO	AZR	25W08 36N57	A20	1	0.4				A	60	4	0000—2400	
9			ATHIEME	BEN	01E41 06N31	C10	5	7.4				A	63	4	0500—2400	
10		S	GOMEL	BLR	31E01 52N25	C 9	5	7.0				A	190	4	0000—2400	
11		S	MIADEL	BLR	26E54 54N53	C18	5	9.1				A	120	4	0000—2400	
12		S	MINSK	BLR	27E34 53N56	C 9	50	17.0				A	190	4	0000—2400	
13		S	MOGHILEV	BLR	30E17 53N55	C18	5	9.1				A	120	4	0000—2400	
14			BANGASSOU	CAF	22E50 04N48	C 9	10	10.4				A	62	5	0400—2300	
15		S	CHUXIONG	CHN	101E28 25N02	A20	100	22.1				A	120	5	2000—1800	
16			HARBIN	CHN	126E52 45N49	A20	5	7.4				A	60	4	2000—1800	
17			JINING	CHN	113E05 41N02	A20	10	10.4				A	60	4	2000—1800	
18		S	PUER	CHN	101E02 22N57	A20	50	17.4				A	60	5	2000—1800	
19		S	WEIXI	CHN	99E12 27N10	A20	20	13.4				A	60	5	2000—1800	
20		S	WENSHAN	CHN	104E15 23N22	A20	10	10.4				A	60	5	2000—1800	
21		S	YUNLONG	CHN	99E19 25N56	A20	10	10.4				A	60	5	2000—1800	
22			LOUDIMA	COG	13E05 04S06	A20	10	10.4				A	69	5	0000—2400	
23			MUENCHEN ISMAN	D	11E45 48N15	D 9	300	29.8	110	50— 70	10.8	B		4	0600—1800	
24			MUENCHEN ISMAN	D	11E45 48N15	D 9	300	29.8		230—240	10.8	B				
25			MUENCHEN ISMAN	D	11E45 48N15	D 9	300	33.8	60	0— 20	14.7	B		4	1800—0600	30
26			MUENCHEN ISMAN	D	11E45 48N15	D 9	300	33.8		100—120	9.8	B				
27			MUENCHEN ISMAN	D	11E45 48N15	D 9	300	33.8		190—280	9.8	B				
28			ALEXANDRIA	EGY	29E52 31N11	D 9	30	15.2				A	60	3	0000—2400	24
29			CAMBRIDGE	G	00E10 52N14	C10	0.2	−7.0				A	61	3	0000—2400	
30			ENNISKILLEN	G	07W39 54N22	A20	1	0.2				A	45	4	0000—2400	
31			FERN BARROW	G	01W54 50N44	C10	0.5	−2.8				A	45	4	0000—2400	
32			TORBAY	G	03W35 50N28	A10	0.5	−3.0				A	45	4	0000—2400	
33			BAFATA	GNB	14W39 12N09	A20	5	7.4				A	63	3	0000—2400	
34			MALI	GUI	12W30 12N03	C 9	50	17.4				A	63	4	0000—2400	
35			CHHATARPUR	IND	79E33 24N52	A20	300	26.9				A	125	3	0300—0900	25
36			JODHPUR 1	IND	72E58 26N20	A20	20	15.1				A	125	4	0300—0900	25
37			JODHPUR 2	IND	72E58 26N20	A20	10	12.1				A	125	4	0900—0300	
38			SHILLONG 1	IND	91E56 25N34	A20	20	15.1				A	125	3	0300—0900	25
39			SHILLONG 2	IND	91E56 25N34	A20	20	15.1				A	125	3	0900—0300	
40			TINNEVELLY 1	IND	77E44 08N44	A20	20	15.1				A	125	3	0300—1000	25
41			TINNEVELLY 2	IND	77E44 08N44	A20	10	12.1				A	125	3	1000—0300	
42			PALENGKARAJA	INS	113E11 02S02	A18	5	7.4				A	63	6	2100—1600	
43			MOGHAN	IRN	48E00 39N40	A20	20	13.4				A	62	3	0200—2100	
44			ARBIL	IRQ	44E00 36N15	A18	50	17.4				A	38	6	0200—2300	
45			ASAHIKAWA	J	142E27 43N46	A15	1	2.1				A	123	5	0000—2400	
46			HAGIWARA	J	137E14 35N50	A15	0.1	−9.6				A	66	5	0000—2400	
47			HAKODATE	J	140E45 41N49	A15	1	0.4				A	72	5	0000—2400	
48			IIDA	J	137E49 35N30	A15	1	0.6				A	100	5	0000—2400	
49			KITAKYUSHU	J	130E52 33N53	A15	1	0.6				A	93	5	0000—2400	
50			KUMAMOTO	J	130E42 32N50	A15	5	12.0	240			B		4	0000—2400	
51			MITO	J	140E26 36N26	A15	5	9.1				A	104	4	0000—2400	
52			NAKAMURA	J	132E55 32N59	A15	1	0.4				A	67	5	0000—2400	
53			NANAO	J	136E57 37N02	A15	1	4.0	355			B		4	0000—2400	
54			DONGTUCHON	KOR	127E03 37N53	C10	1	0.4				A	60	6	0000—2400	

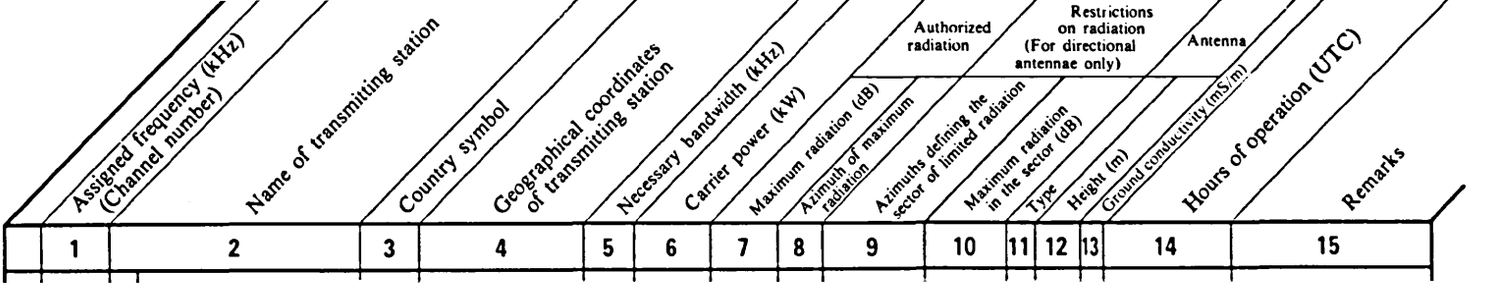


1197 KHZ (75)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1197		MOHALESHOEK	LSO	27E29 30S09	A20	2	3.0				A	30	4	0400—2200	
2	(75)		MACAU	MAC	113E33 22N12	A20	1	0.4				A	70	2	2200—1600	
3			MAJUNGA	MDG	46E20 15S42	C 9	10	10.0				A	252	4	0300—2000	
4			KUDAT	MLA	116E43 06N55	A20	10	13.4				A	150	5	0000—2400	
5			UNDERHAN	MNG	102E55 46N10	A18	5	9.1				A	120	4	2200—1500	
6			AGADIR	MRC	09W31 30N20	A18	20	13.4				A	70	4	0600—2400	24
7			KASUNGU	MWI	33E50 13S00	A20	2	3.6				A	92	3	0200—2300	
8			WANGANUI	NZL	175E05 39S58	A20	2	3.4				A	50	4	0000—2400	
9			BACOLOD CITY	PHL	122E57 10N40	C 9	5	7.6				A	78	3	2100—1600	
10			DAVAO CITY	PHL	125E35 07N04	C 9	5	7.6				A	78	3	2100—1600	
11			COVASNA	ROU	26E17 45N50	A20	15	13.9				A	125	5	0000—2400	
12			BAIDOA	SOM	43E50 03N00	A18	10	10.4				A	60	4	0300—2100	
13			BANGKOK	THA	100E39 13N45	A20	20	13.4				A	51	2	0000—2400	
14			SAMSUN	TUR	36E00 41N39	D 9	20	15.1				A	127	4	0200—2300	
15		S	ANDIJAN	URS	72E21 40N47	A18	5	7.0				A	190	4	0000—2400	
16		S	KHANTYMANSIISK	URS	69E03 60N57	A18	5	7.0				A	190	4	0000—2400	
17		S	KZYL ORDA	URS	65E30 44N50	C10	30	14.8				A	190	4	0000—2400	
18			BOS NOVI	YUG	16E23 45N03	D 9	1	0.4				A	45	4	0800—1500	7
19			KRIVA PALANKA	YUG	22E22 42N12	D 9	1	0.4				A	40	5	0800—1500	7
20			POREC	YUG	13E36 45N14	D 9	0.1	−9.4				A	50	4	0800—1500	7
21			VISOKO	YUG	18E11 44N00	D 9	0.1	−9.6				A	25	4	0800—1500	7

1	Assigned frequency (kHz) (Channel number)	2 Name of transmitting station	3 Country symbol	4 Geographical coordinates of transmitting station	5 Necessary bandwidth (kHz)	6 Carrier power (kW)	Authorized radiation: 7 Maximum radiation (dB)	Authorized radiation: 8 Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): 9 Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): 10 Maximum radiation in the sector (dB)	Antenna: 11 Type	Antenna: 12 Height (m)	Antenna: 13 Ground conductivity (mS/m)	14 Hours of operation (UTC)	15 Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

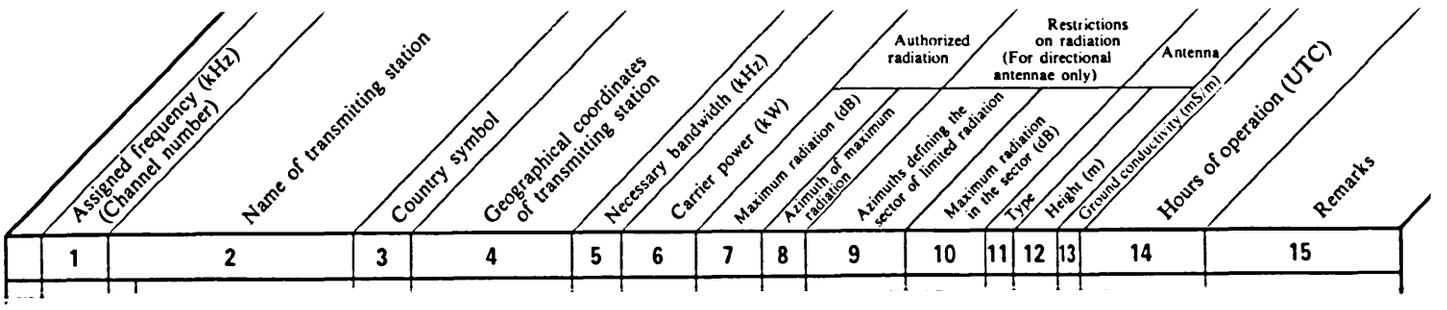
	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1206		MAZAR I SHARIF	AFG	67E08	36N40	C 9	500	30.0	210	320—100	25.0	B		4	0100—2000	
2	(76)		KORCE	ALB	20E48	40N36	A20	10	11.0	215			B		5	0400—2300	
3			KHURMAH	ARS	42E00	22N00	C 9	20	15.1				A	120	4	0400—1400	24
4			CANBERRA ACT	AUS	149E07	35S13	A20	5					B		3	0000—2400	
5			GRAFTON NSW	AUS	152E59	29S40	A20	5					B		3	1900—1400	
6			PERTH WA	AUS	115E54	31S56	A20	5	7.6				A	79	4	0000—2400	
7			NATITINGOU	BEN	01E23	10N18	C10	10	10.4				A	62	4	0500—2400	
8			KUNMING	CHN	102E50	25N10	A20	300	26.9				A	120	5	2000—1800	
9		S	SHIZUISHAN	CHN	106E40	39N09	A20	10	10.4				A	60	4	2000—1800	
10		S	YANCHI	CHN	107E30	37N47	A20	100	22.1				A	120	4	2000—1800	
11			YANJI SHI	CHN	129E30	42N54	A20	100	22.1				A	120	4	2000—1800	
12			BORDEAUX	F	00W11	44N57	D 9	300	32.0	267			B		3	0000—2400	
13			SIGATOKA	FJI	177E31	18S09	A20	2.5	4.0				A	30	3	1700—1200	
14			BHAWANI PATNA	IND	83E18	19N54	A20	300	26.9				A	125	3	0000—2400	
15			TEZPUR	IND	92E42	26N48	A20	300	26.9				A	125	3	0300—0900	25
16			UDIPI	IND	74E44	13N27	A20	300	26.9				A	125	3	0300—1000	25
17			DENPASAR	INS	115E14	08S40	A18	10	10.4				A	62	5	2100—1600	
18			HAIFA	ISR	35E03	32N49	D 9	100	23.0				A	100	3	0000—2400	33
19			NAKURU	KEN	36E05	00S07	C 9	40	18.1				A	130	4	0000—1600	
20			NAKURU	KEN	36E05	00S07	C 9	20	15.1				A	130	4	1600—2400	
21			CHEONGSONG	KOR	129E04	36N22	C10	1	2.1				A	120	6	0000—2400	
22			JEONGSEON	KOR	128E39	37N22	C10	1	0.4				A	60	6	0000—2400	
23			SAMJIYON	KRE	128E18	41N48	A16	1	0.0				A	30		2000—1800	
24			MIRI	MLA	113E59	04N23	A20	20	15.1				A	110	5	2000—1500	
25			INHAMBANE	MOZ	35E23	23S53	C10	50	17.3	290			B		4	0400—2200	
26			TARFAYA	MRC	12W55	27N55	C10	100	22.0	160	280— 60	10.0	B		6	0500—2400	24
27			YOLA	NIG	12E29	09N12	C 9	10	10.6				A	75	4	0500—2300	
28			DUNEDIN	NZL	170E30	45S53	A20	2	3.4				A	40	4	0000—2400	
29			NOVALICHES QC	PHL	121E02	14N44	C 9	10	10.6				A	77	3	2100—1600	
30			SURIGAO	PHL	125E29	09N47	C 9	1	0.6				A	77	3	2100—1600	
31		S	KOSZALIN	POL	16E22	54N01	A20	60	19.9				A	118	4	0000—2400	
32		S	LUBLIN	POL	22E40	51N00	A20	60	19.9				A	118	3	0000—2400	
33		S	MYSLIBORZ	POL	14E38	52N53	A20	10	12.1				A	118	4	0000—2400	
34		S	NOWY SACZ	POL	20E40	49N38	A20	10	12.1				A	118	5	0000—2400	
35		S	OLSZTYN	POL	20E32	53N51	A20	60	19.9				A	118	4	0000—2400	
36		S	WROCLAW	POL	17E03	50N58	C 9	200	25.1				A	118	4	0000—2400	
37		S	ZYWIEC	POL	19E11	49N41	A20	10	12.1				A	118	4	0000—2400	
38			RODRIGUES	ROD	63E26	19S42	A20	25	14.4				A	62	6	0200—2000	
39		S	BO	SRL	11W55	07N55	C 9	20	13.4				A	40	2	0500—2400	
40		S	GODERICH	SRL	13W17	08N30	C 9	20	13.4				A	40	2	0500—2400	
41		S	KABALA	SRL	11W35	09N35	C 9	20	13.4				A	40	2	0500—2400	
42		S	KENEMA	SRL	11W10	07N50	C 9	20	13.4				A	40	2	0500—2400	
43		S	LUNSAR	SRL	12W03	08N41	C 9	20	13.4				A	40	2	0500—2400	
44		S	MAKENI	SRL	12W00	08N52	C 9	20	13.4				A	40	2	0500—2400	
45		S	MOYAMBA	SRL	12W35	08N15	C 9	20	13.4				A	40	2	0500—2400	
46		S	SEFADU	SRL	11W45	07N58	C 9	20	13.4				A	40	2	0500—2400	
47			BOKORO	TCD	17E04	12N23	C 9	1	0.4				A			0400—2300	
48			FT PORTAL	UGA	30E16	00N39	C 9	20	13.6				A	70	4	0300—2100	
49			SEMIPALATINSK	URS	80E15	50N25	A18	5	7.0				A	190	4	0000—2400	
50			SANAA 1	YEM	44E11	15N22	C 9	60	18.2				A	60	5	0300—2200	24
51			BOS BROD	YUG	18E00	45N09	D 9	1	0.6				A	50	3	0800—1500	7
52			MAJDANPEK	YUG	21E58	44N26	D 9	1	0.6				A	45	5	0800—1500	7



1206 KHZ (76)

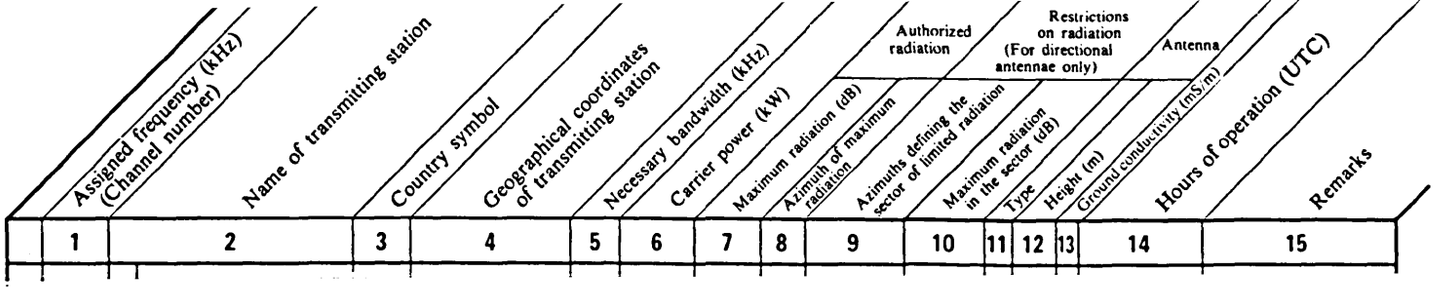
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1206	SUBOTICA	YUG	19E44 46N10	D 9	2	3.6				A	52	4	0800—1500	7
2	(76)	NDOLA	ZMB	28E40 13S00	A20	2	5.1				A	125	4	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1215		LUSO	AGL	19E55 11S48	C10	1	0.4				A	58	3	0500—2200	
2	(77)		LUSHNJE	ALB	19E40 40N57	C 9	500	29.1				A	124	5	0300—2400	23/URS
3			MEDINAH	ARS	39E33 24N28	C10	1	0.4				A	69	4	0300—2300	24
4			LAUNCESTON TAS	AUS	147E00 42S00	A20	10	12.1				A		4	1900—1400	
5			PEMBERTON WA	AUS	116E30 34S30	A20	10	12.1				A		3	2100—1600	
6			MYMENSINGH	BGD	90E24 24N44	A20	10	12.1				A	122	3	0000—1800	
7			AWALI	BHR	50E33 26N05	C 9	0.1	−9.6				A	60	6	0000—2400	
8			SEBELE	BOT	25E58 24S34	A20	50	17.4				A	100	4	0300—2100	
9		S	ANQING	CHN	117E00 30N30	A20	10	10.4				A	60	4	2000—1800	
10		S	AOHAN QI	CHN	119E42 42N20	A20	10	10.4				A	60	4	2000—1800	
11		S	DARLA	CHN	99E33 33N42	A20	10	10.4				A	60	5	2000—1800	
12		S	DINGNAN	CHN	115E01 24N45	A20	10	10.4				A	60	4	2000—1800	
13		S	ENSHI	CHN	109E28 30N17	A20	10	10.4				A	60	4	2000—1800	
14		S	FUYUAN	CHN	134E15 48N17	A20	20	13.4				A	60	4	2000—1800	
15		S	FUZHOU 2	CHN	116E19 28N00	A20	10	10.4				A	60	4	2000—1800	
16		S	GANGCA	CHN	100E10 37N20	A20	20	13.4				A	60	5	2000—1800	
17		S	HAILAR	CHN	119E45 49N02	A20	20	13.4				A	60	4	2000—1800	
18		S	HEFEI	CHN	117E19 31N46	A20	20	13.4				A	60	4	2000—1800	
19		S	HEXIGTEN QI	CHN	117E22 43N12	A20	10	10.4				A	60	4	2000—1800	
20		S	HEZE	CHN	115E27 35N15	A20	5	7.4				A	60	4	2000—1800	
21		S	HUIZHOU	CHN	114E24 23N05	A20	50	17.4				A	60	4	2000—1800	
22		S	HUMA	CHN	126E36 51N35	A20	20	13.4				A	60	4	2000—1800	
23		S	HUOQIU	CHN	116E15 32N20	A20	5	7.4				A	60	4	2000—1800	
24		S	JAGDAQI	CHN	124E05 50N25	A20	20	13.4				A	60	4	2000—1800	
25		S	JIAN SHI	CHN	114E59 27N08	A20	50	17.4				A	60	4	2000—1800	
26		S	JIAYIN	CHN	130E21 48N42	A20	50	17.4				A	60	4	2000—1800	
27		S	JIMO	CHN	120E28 36N23	A20	10	10.4				A	60	4	2000—1800	
28		S	JINAN	CHN	116E57 36N43	A20	50	17.4				A	60	4	2000—1800	
29		S	JINGDEZHEN	CHN	117E11 29N17	A20	20	13.4				A	60	4	2000—1800	
30		S	JINHUA	CHN	119E30 29N15	A20	10	10.4				A	60	4	2000—1800	
31		S	KENLI	CHN	118E35 37N38	A20	5	7.4				A	60	4	2000—1800	
32		S	KUANDIAN	CHN	124E42 40N44	A20	10	10.4				A	60	4	2000—1800	
33		S	LINFEN	CHN	111E31 36N05	A20	10	10.4				A	60	4	2000—1800	
34		S	LINGQIU	CHN	114E14 39N26	A20	1	0.4				A	60	4	2000—1800	
35		S	LISHI	CHN	111E08 37N31	A20	10	10.4				A	60	4	2000—1800	
36		S	LONGJIANG	CHN	123E14 47N20	A20	1	0.4				A	60	4	2000—1800	
37		S	LUDA	CHN	121E30 38N54	A20	10	10.4				A	60	4	2000—1800	
38		S	MUDANJIANG	CHN	129E36 44N36	A20	10	10.4				A	60	4	2000—1800	
39		S	NINGBO	CHN	121E32 29N52	A20	20	13.4				A	60	4	2000—1800	
40		S	NINGGUO	CHN	118E58 30N38	A20	5	7.4				A	60	4	2000—1800	
41		S	PANSHAN	CHN	122E02 41N08	A20	5	7.4				A	60	4	2000—1800	
42		S	PENGHU	CHN	119E33 23N34	A20	20	13.4				A	60	5	2000—1800	
43		S	PINGHU	CHN	121E01 30N42	A20	10	10.4				A	60	4	2000—1800	
44		S	RUIJIN	CHN	116E00 25N50	A20	20	13.4				A	60	4	2000—1800	
45		S	SHASHI	CHN	112E14 30N18	A20	20	13.4				A	60	4	2000—1800	
46		S	SHIYAN	CHN	110E47 32N36	A20	10	10.4				A	60	4	2000—1800	
47		S	SHUANGYASHAN	CHN	131E05 46N32	A20	5	7.4				A	60	4	2000—1800	
48		S	SHUO XIAN	CHN	112E25 39N18	A20	10	10.4				A	60	4	2000—1800	
49		S	SU XIAN	CHN	116E58 33N39	A20	20	13.4				A	60	4	2000—1800	
50		S	SUIHUA	CHN	126E50 46N34	A20	20	13.4				A	60	4	2000—1800	
51		S	SUIZHONG	CHN	120E20 40N21	A20	5	7.4				A	60	4	2000—1800	
52		S	SUZHOU	CHN	120E41 31N18	A20	5	7.4				A	60	3	2000—1800	
53		S	TAIZHOU	CHN	119E55 32N30	A20	5	7.4				A	60	3	2000—1800	
54		S	TONGREN 1	CHN	102E01 35N31	A20	10	10.4				A	60	5	2000—1800	

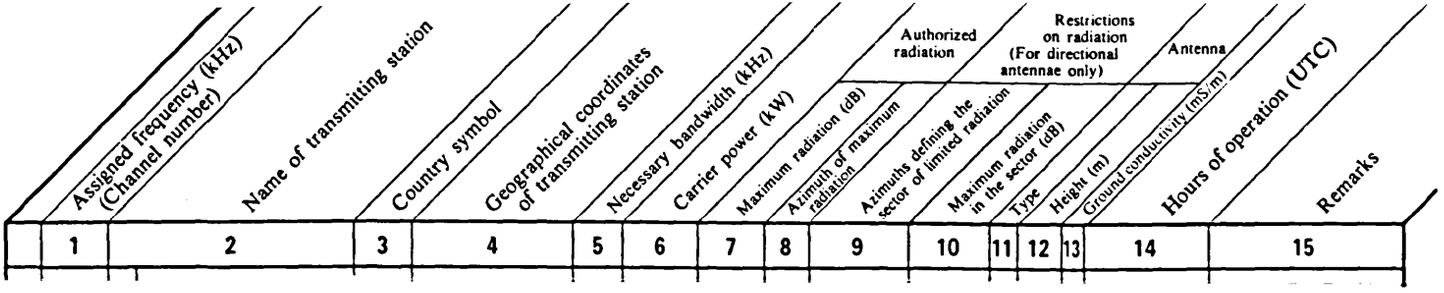


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1215	S	WENZHOU	CHN	120E36 28N06	A20	10	10.4				A	60	4	2000–1800	
2	(77)	S	WUHAN	CHN	114E20 30N36	A20	50	17.4				A	60	4	2000–1800	
3		S	WULIAN	CHN	119E12 35N45	A20	5	7.4				A	60	4	2000–1800	
4		S	XIUSHUI	CHN	114E34 29N03	A20	10	10.4				A	60	4	2000–1800	
5		S	YANGQUAN	CHN	113E35 37N52	A20	5	7.4				A	60	4	2000–1800	
6		S	YANTAI	CHN	121E18 37N36	A20	5	7.4				A	60	4	2000–1800	
7		S	YINGDE	CHN	113E24 24N10	A20	10	10.4				A	60	4	2000–1800	
8		S	YULI	CHN	121E19 23N20	A20	20	15.1				A	120	5	2000–1800	
9		S	ZAOYANG	CHN	112E45 32N08	A20	10	10.4				A	60	4	2000–1800	
10		S	ZAOZHUANG	CHN	117E34 34N52	A20	5	7.4				A	60	4	2000–1800	
11		S	ZHANJIANG	CHN	110E24 21N12	A20	50	17.4				A	60	4	2000–1800	
12			LAS PALMAS	CNR	15W25 28N05	A20	20	13.4				A	60	4	0000–2400	
13			KIBANGOU	COG	12E21 03S28	A20	10	10.4				A	62	5	0000–2400	
14			GHIMBI	ETH	35E49 09N11	C 9	10	10.4				A	62	3	0400–2100	
15		S	BRIGHTON	G	00W15 50N50	A20	1	0.6				A	82	4	0000–2400	
16		S	BROOKMANS PARK	G	00W11 51N44	A20	50	21.0	158			B		3	0000–2400	
17		S	BURGHEAD	G	03W28 57N42	A20	20	16.4				A	152	4	0000–2400	
18		S	DROITWICH	G	02W06 52N18	A20	30	21.0	40			B		3	0000–2400	
19		S	FAREHAM	G	01W13 50N51	A20	1	0.0				A	38	4	0000–2400	
20		S	HULL	G	00W14 53N43	A20	0.2	−6.6				A	38	3	0000–2400	
21		S	LISNAGARVEY	G	06W04 54N30	A20	10	12.1				A	110	4	0000–2400	
22		S	LONDONDERRY	G	07W20 55N00	A20	0.3	−5.2				A	30	5	0000–2400	
23		S	MOORSIDE EDGE	G	01W54 53N38	A20	50	21.0	65			B		4	0000–2400	
24		S	MOORSIDE EDGE	G	01W54 53N38	A20	50	21.0	245			B				
25		S	NEWCASTLE	G	01W34 54N56	A20	2	3.4				A	46	3	0000–2400	
26		S	PLYMOUTH	G	04W08 50N24	A20	1	0.4				A	34	5	0000–2400	
27		S	POSTWICK	G	01E24 52N38	A20	1	0.7				A	84	3	0000–2400	
28		S	REDMOSS	G	02W05 57N07	A20	2	3.6				A	76	5	0000–2400	
29		S	REDRUTH	G	05W13 50N13	A20	2	3.4				A	38	5	0000–2400	
30		S	TYWYN	G	04W06 52N35	A20	0.5	−2.6				A	38	4	0000–2400	
31		S	WASHFORD	G	03W21 51N10	A20	60	19.9				A	137	4	0000–2400	
32		S	WESTERGLEN	G	03W50 55N58	A20	40	20.0	65			B		4	0000–2400	
33		S	WESTERGLEN	G	03W50 55N58	A20	40	20.0	245			B				
34			DELHI 1	IND	77E12 28N38	A20	10	12.1				A	125	3	0900–0300	
35			DELHI 2	IND	77E12 28N38	A20	20	15.1				A	125	3	0300–0900	25
36			MADURAI 1	IND	78E15 09N25	A20	20	15.1				A	125	3	0300–1000	25
37			MADURAI 2	IND	78E15 09N25	A20	10	12.1				A	125	3	1000–0300	
38			DJAKARTA	INS	106E45 06S23	A18	10	10.4				A	61	5	2200–1700	
39			CHALUS	IRN	51E25 36N40	A20	20	13.4				A	66	2	0200–2100	
40			JAECHEON	KOR	128E13 37N17	C10	10	12.1				A	120	6	0000–2400	
41			HAEJU	KRE	125E42 38N03	A16	1	0.0				A	30		2000–1800	
42			MORONDAVA	MDG	44E18 20S17	C 9	20	15.1				A	124	4	0300–2000	
43			DELIMARA	MLT	14E34 35N49	D 9	600	35.0	75	170–340	8.0	B		4	0000–2400	23/URS
44			TAHOUA	NGR	05E10 15N00	C 9	300	26.9				A	120	4	0000–2400	18/NIG
45			MONGUN	NIG	09E32 09N15	C 9	20	13.6				A	75	4	0500–2300	18/NGR
46		S	DARGAVILLE	NZL	173E53 35S57	A20	2	3.4				A	50	3	0000–2400	
47		S	KAIKOHE	NZL	173E52 35S22	A20	2	3.4				A	50	4	0000–2400	
48			NOOKUNDI	PAK	63E20 28N40	A20	10	10.4				A	53	4	0000–2000	
49			CEBU CITY	PHL	123E56 10N19	C 9	5	7.6				A	76	3	2100–1600	
50			DAGUPAN CITY	PHL	120E20 16N03	C 9	5	7.6				A	76	3	2100–1600	
51		S	KANDRIAN	PNG	149E33 06S34	B10	2	3.0				A	30	6	1900–1300	
52		S	KIMBE	PNG	150E25 05S17	B10	10	10.6				A	80	6	1900–1300	
53			CARAMULO	POR	08W09 40N34	A20	10	10.0				A	60	5	0000–2400	
54			BAKEL	SEN	12W28 14N55	C 9	20	13.4				A	50	4	0600–2400	

Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1215		ARUSHA	TGK	36E40	03S00	C 9	50	17.4				A	64	4	0300—2100	
2	(77)		PHRAE	THA	100E09	18N08	A20	10	10.4				A	62	5	0000—2400	
3			SURAT THANI	THA	99E12	09N07	A20	50	17.4				A	60	3	0000—2400	
4			GAZIANTEP	TUR	37E22	37N04	D 9	10	10.4				A	52	4	0200—2300	
5		S	KURSK	URS	36E15	51N45	A16	20	13.0				A	190	4	0000—2400	
6			OMSK	URS	73E25	55N01	A16	100	20.0				A	190	4	0000—2400	23/MLT
7		S	ORISSARE	URS	23E30	58N56	C 9	30	14.8				A	190	4	0000—2400	
8		S	TARTU	URS	26E35	58N23	C 9	50	17.0				A	190	4	0000—2400	
9			TSKHINVALI	URS	44E00	42N18	A18	25	14.0				A	190	4	0000—2400	
10			HISWA	YMS	44E54	12N49	C 9	200	26.0	26	140—270	13.0	B		4	0300—2200	24
11			DJURDJEVAC	YUG	17E11	45N42	D 9	1	0.6				A	50	3	0800—1500	7
12			MLADENOVAC	YUG	20E43	44N27	D 9	1	0.6				A	45	4	0800—1500	7
13			VRBOVSKO	YUG	15E10	45N20	D 9	0.2	—7.4				A	25	4	0800—1500	7

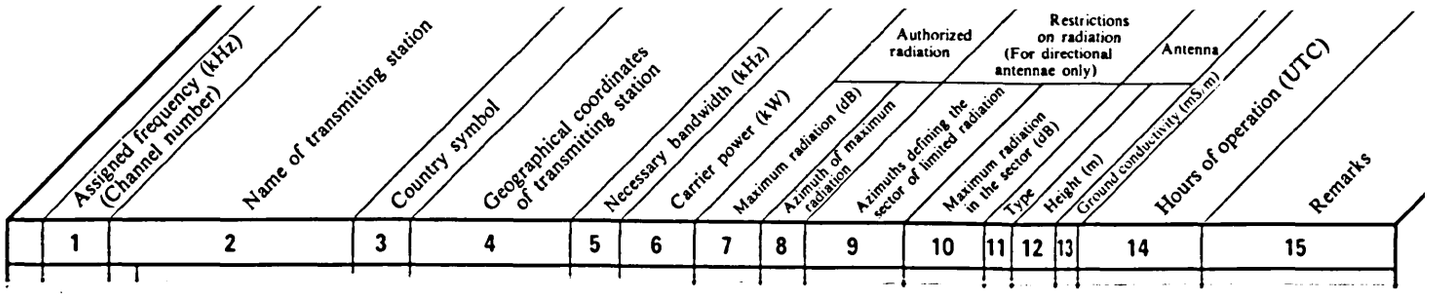


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1224		DIRIYAH	ARS	46E37 24N39	C10	1	2.1				A	107	4	0300—2300	24
2	(78)		MELBOURNE VIC	AUS	144E47 37S43	A20	10	10.4				A	65	2	1900—1400	
3			SYDNEY NSW	AUS	150E53 33S48	A20	5					B		4	0000—2400	
4			VIDIN	BUL	22E40 43N39	C 9	1000	30.0				A	257	4	0000—2400	
5			CHENGDU	CHN	104E00 30N42	A20	100	22.1				A	120	4	2000—1800	
6		S	HENGCHUN	CHN	120E43 22N01	A20	10	12.1				A	120	5	2000—1800	
7		S	JIAYI	CHN	120E26 23N28	A20	10	12.1				A	120	5	2000—1800	
8			PINGXIANG GX	CHN	106E45 22N11	A20	10	10.4				A	60	4	2000—1800	
9		S	XINZHU	CHN	120E58 24N48	A20	100	22.1				A	120	5	2000—1800	
10			YOKO	CME	12E50 05N23	C 9	1	2.1				A	122	4	0500—2300	
11		S	ALBACETE	E	01W52 39N00	D 9	2	3.4				A	50	4	0000—2400	
12		S	ALICANTE	E	00W33 38N19	D 9	2	3.4				A	50	4	0000—2400	
13		S	BADAJOZ	E	06W55 38N53	D 9	2	3.4				A	50	4	0000—2400	
14		S	CORDOBA	E	04W51 37N54	D 9	2	3.4				A	40	3	0000—2400	
15		S	GRANADA	E	03W35 37N11	D 9	5	7.4				A	60	4	0000—2400	
16		S	HUELVA	E	06W56 37N15	D 9	2	3.4				A	40	3	0000—2400	
17		S	IBIZA	E	01E27 38N54	D 9	1	0.4				A	60	4	0000—2400	
18		S	JEREZ FRONTERA	E	06W07 36N49	D 9	2	3.4				A	40	3	0000—2400	
19		S	LEON	E	05W34 42N38	D 9	2	3.4				A	60	4	0000—2400	
20		S	LERIDA	E	00E38 41N36	D 9	2	3.4				A	40	5	0000—2400	
21		S	LUGO	E	07W33 42N59	D 9	2	3.4				A	40	5	0000—2400	
22		S	MADRID	E	03W40 40N26	D 9	20	13.4				A	60	4	0000—2400	
23		S	MALAGA	E	04W27 36N43	D 9	5	7.4				A	50	5	0000—2400	
24		S	MURCIA	E	01W10 38N00	D 9	5	7.4				A	60	4	0000—2400	19
25		S	PALMA MALLORCA	E	02E37 39N35	D 9	2	3.4				A	50	4	0000—2400	
26		S	PUERTOLLANO	E	04W12 38N41	D 9	1	0.4				A	60	4	0000—2400	
27		S	S SEBASTIAN	E	01W57 43N19	D 9	2	3.4				A	60	4	0000—2400	
28		S	SANTANDER	E	03W49 43N25	D 9	2	3.4				A	40	5	0000—2400	
29		S	VIGO	E	08W44 42N10	D 9	5	7.4				A	60	5	0000—2400	
30		S	VILLAREAL INF	E	00W07 39N57	D 9	2	3.4				A	40	4	0000—2400	
31		S	ZAMORA	E	05W45 41N31	D 9	2	3.4				A	40	4	0000—2400	
32			ASSEN	HOL	06E33 53N00	D 9	20	13.4				A	60	4	0000—2400	
33			HENGELO	HOL	06E49 52N16	D 9	10	10.0				A	60	3	0000—2400	
34			PO	HVO	01W08 11N10	A20	30	16.9				A	123	4	0000—2400	
35			BARMER	IND	71E18 25N45	A20	20	15.1				A	125	4	0300—0900	25
36			CALCUTTA 1	IND	88E23 22N36	A20	20	15.1				A	125	3	0300—0900	25
37			CALCUTTA 2	IND	88E23 22N36	A20	10	12.1				A	125	3	0900—0300	
38			GORAKHPUR	IND	83E28 26N52	A20	20	15.1				A	125	3	0300—0900	25
39			GULBARGA	IND	76E54 17N19	A20	20	15.1				A	125	3	0300—1000	25
40			ITANAGAR	IND	94E42 27N12	A20	20	15.1				A	125	4	0300—0900	25
41			NAGPUR	IND	79E03 21N06	A20	20	15.1				A	125	3	0300—0900	25
42			SRINAGAR 1	IND	74E49 34N04	A20	20	15.1				A	125	3	0300—0900	25
43			SRINAGAR 2	IND	74E49 34N04	A20	10	12.1				A	125	3	0900—0300	
44			KERMAN	IRN	56E58 30N15	C 9	10	10.0				A	60	3	0230—1500	
45			KERMAN	IRN	56E58 30N15	C 9	5	7.0				A	60	3	1500—2400	
46			BEER SHEVA	ISR	34E32 31N14	D 9	10	10.4				A	55	3	0000—2400	33
47			KANAZAWA	J	136E37 36N32	A15	10	12.1				A	114	4	0000—2400	18/KOR
48			GARISSA	KEN	39E40 00S25	C 9	10	10.6				A	100	4	0000—2400	
49			SUWEON	KOR	127E02 37N16	C10	100	22.1				A	135	5	0000—2400	18/J
50			UNSAN	KRE	125E54 40N06	A16	50	21.0				B		7	2000—1800	
51		S	JOHORE BAHRU	MLA	103E45 01N27	A20	50	20.4				A	150	5	2200—1700	
52		S	TRONOH	MLA	100E59 04N23	A20	100	23.4				A	150	5	2200—1700	
53			LOUREN MARQUES	MOZ	32E36 25S58	C10	10	10.4				A	60	4	0400—2200	31
54			MOCIMBOA	MOZ	40E45 13S02	C10	50	17.5	230	330—130	7.0	B		4	0400—2200	

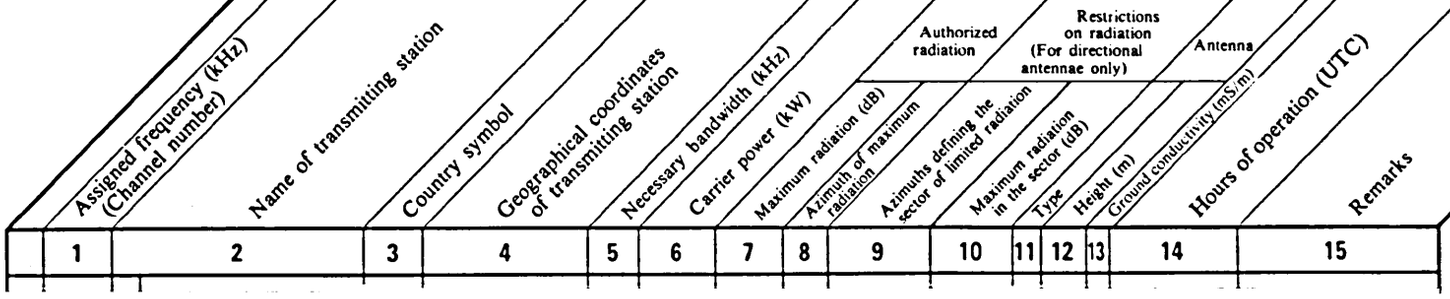
	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1224		NAMPULA	MOZ	39E16	15S06	C10	5	7.4				A	60	4	0400—2200	31
2	(78)		KWAJALEIN	MRL	167E44	08N44	A20	1	0.4				A	46	3	0000—2400	
3			TIEBAGHI	NCL	164E13	20S28	A20	10	10.4				A	50	3	0000—2400	
4			JOS 1	NIG	08E53	09N52	C 9	20	13.6				A	75	4	0500—2300	
5			KEETMANSHOOP	NMB	18E08	26S35	A20	50	19.1				A	122	2	0000—2400	
6			OBAN	NZL	168E08	46S52	A20	2	3.4				A	50	5	0000—2400	
7			CATBALOGAN SAM	PHL	124E53	11N46	C 9	1	0.6				A	76	3	2100—1600	
8			JOLO SULU	PHL	121E00	06N03	C 9	1	0.6				A	76	3	2100—1600	
9			LUCENA QUEZON	PHL	121E36	13N57	C 9	5	7.6				A	76	3	2100—1600	
10			LE PORT 2	REU	55E18	20S55	A20	10	10.6				A	100	3	0000—2400	
11			OESTERSUND	S	14E36	63N07	D 9	600	30.0				A	120	6	0000—2400	
12			ZIGUINCHOR	SEN	16W15	12N35	C 9	20	15.1				A	125	5	0600—2400	
13			GUEREDA	TCD	22E06	14N31	C 9	1	0.4				A			0400—2300	
14		S	BANGKOK	THA	100E37	13N55	A20	10	10.4				A	63	2	0000—2400	
15		S	CHIANG RAI	THA	99E49	19N54	A20	10	10.4				A	60	5	0000—2400	
16			JJINJA	UGA	33E14	00N29	C 9	10	10.4				A	60	4	0300—2100	
17			DJAMBUL	URS	71E22	42N55	A18	150	25.8	340	140—180	7.0	B		4	0000—2400	
18			SOVETSKAIA GVN	URS	140E20	48N58	A18	50	17.0				A	190	4	0000—2400	
19			UST KUT	URS	105E41	56N46	A18	50	17.0				A	190	4	0000—2400	
20			BOS DUBICA	YUG	16E49	45N12	D 9	0.1	−9.6				A	25	3	0800—1500	7
21			KRAPINA	YUG	15E15	46N09	D 9	1	0.4				A	40	4	0800—1500	7

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1233		LUANDA	AGL	13E20 08S50	A20	5	7.4				A	62	3	0000—2400	
2	(79)		JEDDAH	ARS	39E09 21N14	C 9	20	15.1				A	120	3	0400—1400	24
3			NEWCASTLE NSW	AUS	151E40 32S48	A20	10	10.6				A	91	3	1900—1400	
4			LIEGE	BEL	05E34 50N40	D 9	50	19.1				A	130	4	0600—1800	7
5			LIEGE	BEL	05E34 50N40	D 9	50	17.0	270	70—110	—7.0	B		4	1800—0600	
6		S	ANHUA	CHN	111E13 28N22	A20	20	13.4				A	60	4	2000—1800	
7		S	CHANGSHA SHI	CHN	112E45 28N09	A20	100	22.1				A	120	4	2000—1800	
8		S	HABAHE	CHN	87E03 48N04	A20	10	10.4				A	60	4	2000—1800	
9		S	LEIYANG	CHN	112E51 26N25	A20	20	13.4				A	60	4	2000—1800	
10		S	NINGYUAN	CHN	111E59 25N35	A20	20	13.4				A	60	4	2000—1800	
11		S	QIANYANG	CHN	110E09 27N20	A20	20	13.4				A	60	4	2000—1800	
12		S	TAXKORGAN	CHN	75E08 37N42	A20	10	10.4				A	60	4	2000—1800	
13		S	URUMQI SHI	CHN	87E30 43N35	A20	100	22.1				A	120	4	2000—1800	
14		S	YONGSHUN	CHN	109E51 29N00	A20	20	13.4				A	60	4	2000—1800	
15			KOUSSERI	CME	14E57 12N02	C 9	20	15.1				A	121	4	0500—2300	
16			GAMBOMA	COG	15E52 01S52	A20	10	10.4				A	61	5	0000—2400	
17			BONDOUKOU	CTI	02W47 08N08	C 9	10	12.1				A		7	0600—2400	
18			OUELLE	CTI	04W01 07N17	C 9	1	0.4				A		7	0600—2400	
19			C GRECO	CYP	34E04 34N57	D 9	600	34.0	200	320—350	9.0	B		4	0000—2400	
20			GHIMBI	ETH	35E49 09N11	C 9	10	10.4				A	61	3	0400—2100	
21			PT GENTIL	GAB	08E42 00S42	C 9	5	7.4				A		4	0400—2400	
22			BAFATA	GNB	14W39 12N09	A20	5	7.4				A	62	3	0000—2400	
23			BHOPAL	IND	77E29 23N15	A20	1	0.0				A	40	3	0000—2400	
24			PUTTUR	IND	75E12 12N42	A20	20	15.1				A	120	4	0000—2400	
25			RAMPUR	IND	79E04 28N48	A20	20	15.1				A	120	3	0300—0900	25
26			SURAT	IND	72E52 21N12	A20	20	15.1				A	120	3	0300—0900	25
27			SURATGARH	IND	73E54 29N24	A20	20	15.1				A	120	3	0300—0900	25
28			TURA	IND	90E12 25N36	A20	20	15.1				A	120	3	0000—2400	
29			VIZAGAPATAM	IND	83E20 17N42	A20	20	15.1				A	120	4	0300—1000	25
30			PONTIANAK	INS	109E16 00S05	A18	50	17.6				A	70	5	2100—1600	
31			MAKU	IRN	44E25 39N15	A20	20	13.4				A	61	3	0200—2100	
32			AOMORI	J	140E39 40N47	A15	5	9.0	40			B		5	0000—2400	
33			NAGASAKI	J	129E53 32N43	A15	5	7.6				A	83	5	0000—2400	
34			OZU	J	132E33 33N31	A15	0.1	—9.6				A	50	5	0000—2400	
35			MOMBASA	KEN	39E40 04S05	C 9	50	19.1				A	100	4	0000—2400	
36			KUMI	KOR	128E20 36N07	C10	1	0.6				A	80	6	0000—2400	
37			PYEONGCHANG	KOR	128E23 37N22	C10	1	2.1				A	120	6	0000—2400	
38			YEONGYANG	KOR	129E07 36N39	C10	1	2.1				A	120	6	0000—2400	
39			JUNGGANG	KRE	126E44 41N45	A16	1	0.0				A	30		2000—1800	
40			SELAMA	MLA	100E40 05N12	A20	10	12.1				A	120	5	2200—1700	
41			SAINSHAND	MNG	110E05 44N50	A18	5	9.1				A	120	4	2200—1500	
42			MARRUPA	MOZ	37E30 13S12	C10	1	0.4				A	40	4	0400—2200	
43			TANGER	MRC	05W50 35N45	C 9	200	25.0	110	310— 50	16.0	B		4	0700—2400	24
44			OHAKUNE	NZL	175E29 39S24	A20	1	0.4				A	50	6	0000—2400	
45			BACOLOD CITY	PHL	122E57 10N12	C 9	1	0.6				A	75	3	2100—1600	
46			DAVAO CITY	PHL	125E35 07N05	C 9	5	7.6				A	75	3	2100—1600	
47		S	KOROBA	PNG	142E44 05S42	B10	2	3.0				A	30	5	1900—1300	
48		S	MENDI	PNG	143E40 06S10	B10	10	10.6				A	80	5	1900—1300	
49		S	TARI	PNG	142E57 05S51	B10	2	3.0				A	30	5	1900—1300	
50			AL KHAISAH	QAT	51E25 25N24	C 9	100	28.0	130	180— 60	18.0	B		5	0300—2100	24
51		S	CES BUDEJOVICE	TCH	14E31 48N58	C 9	100	22.1				A	100	5	0000—2400	
52		S	HRADEC KRALOVE	TCH	15E50 50N14	C 9	6	7.8				A	60	4	1700—0400	
53		S	KARLOVY VARY	TCH	12E52 50N15	C 9	50	19.1				A	100	5	0000—2400	
54		S	PLZEN	TCH	13E23 49N45	C 9	100	22.1				A	100	4	0000—2400	

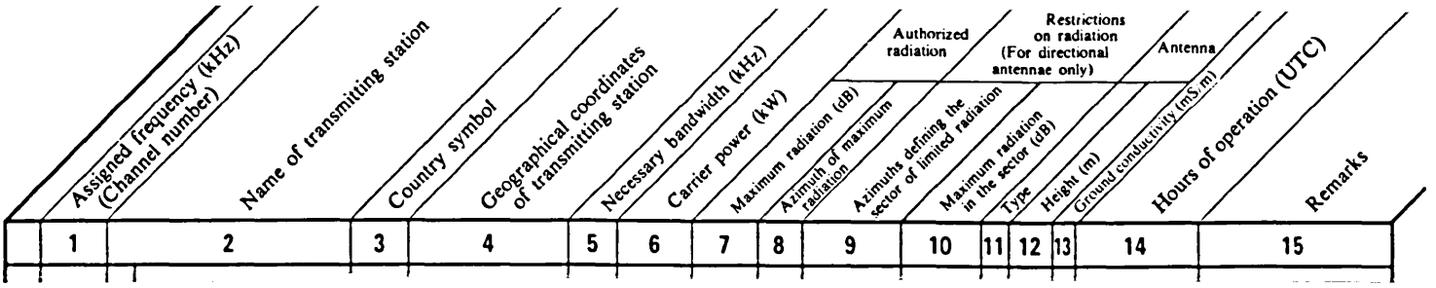


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1233	S	PRAHA 2	TCH	14E31 50N22	C 9	750	32.2				A	140	4	0000—2400	
2	(79)	S	STRAKONICE	TCH	13E55 49N17	C 9	7	8.9				A	60	5	0000—2400	
3			DAPANGO	TGO	00E12 10N51	A20	10	10.4				A	60	4	0000—2400	
4			UDON THANI	THA	102E47 17N23	A20	10	10.4				A	60	3	0000—2400	
5			NUKUALOFA	TON	175W10 21S08	A20	10	10.4				A	61	2	1800—1000	
6			DARGAN ATA	URS	62E14 40N27	A18	50	17.4				A	60	4	0000—2400	
7			ILIJAS	YUG	18E16 43N59	D 9	1	0.6				A	40	4	0800—1500	7
8			NASICE	YUG	18E07 45N30	D 9	0.1	−9.4				A	50	3	0800—1500	7



1242 KHZ (80)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1242	HENRIQCARVALHO	AGL	20E24 09S40	A20	5	7.4				A	62	3	0000—2400	
(80)	GIZAN	ARS	42E31 16N52	C 9	20	15.1				A	120	3	0400—1400	24
	DARWIN NT	AUS	130E51 12S26	A20	10	10.4				A	53	3	1900—1400	
	OAKEY QLD	AUS	151E45 27S28	A20	5	7.4				A	60	3	0000—2400	
	PT AUGUSTA SA	AUS	137E56 32S50	A20	5					B		3	1900—1400	
	SALE VIC	AUS	147E02 38S04	A20	5					B		2	1900—1400	
	BUJUMBURA	BDI	29E30 03S28	C 9	100	22.1				A	120	4	0300—2400	
	TUTONG	BRU	114E38 04N48	A20	20	13.4				A	55	4	2200—1500	
	PHNOM PENH	CBG	104E55 11N34	C10	1	0.4				A	61	3	0000—2400	
S	BIJIANG	CHN	98E52 26N34	A20	10	10.4				A	60	5	2000—1800	
S	BINCHUAN	CHN	100E33 25N50	A20	10	10.4				A	60	5	2000—1800	
S	CHANGNING	CHN	99E29 24N51	A20	10	10.4				A	60	5	2000—1800	
S	GEJIU	CHN	103E08 23N21	A20	20	13.4				A	60	5	2000—1800	
	JIAYIN	CHN	130E21 48N42	A20	100	21.0	310	90—170	14.0	B		4	2000—1800	
S	JINGHONG	CHN	100E43 22N01	A20	20	13.4				A	60	5	2000—1800	
S	QUJING	CHN	103E40 25N28	A20	10	10.4				A	60	5	2000—1800	
	SHENYANG	CHN	123E36 41N54	A20	100	21.0	280	60—140	14.0	B		4	2000—1800	
S	ZHAOTONG	CHN	103E34 27N20	A20	10	10.4				A	60	5	2000—1800	
	MINDELO	CPV	24W59 16N53	A18	10	10.4				A	40	6	1900—2400	
	PORT FUAD	EGY	32E20 31N05	D 9	20	15.1				A	100	3	0000—2400	24
	MARSEILLE	F	05E20 43N28	D 9	300	32.0	305	60— 90	25.0	B		5	0000—2400	
S	PUUMALA	FNL	28E04 61N30	D 9	45	18.6				A	100	5	0000—2400	
S	VAASA	FNL	21E35 63N05	D 9	25	15.5				A	104	4	0000—2400	46
S	VAASA 1	FNL	21E38 63N10	D 9	600	29.8	340	150—160	24.8	B		4	0000—2400	45
	TOUGUE	GUI	11W35 11N30	C 9	30	15.2				A	60	4	0000—2400	
	KOUDOUGOU	HVO	02W30 12N22	A20	10	10.4				A	60	4	0000—2400	
	ADILABAD	IND	78E30 19N48	A20	20	15.1				A	120	3	0300—1000	25
	ALMORA	IND	79E38 29N35	A20	20	15.1				A	120	4	0300—0900	25
	BHUJ	IND	69E43 23N15	A20	20	15.1				A	120	3	0300—0900	25
	LEH	IND	77E35 34N09	A20	20	15.1				A	120	4	0300—0900	25
	VARANASHI 1	IND	83E00 25N20	A20	300	26.9				A	120	3	0300—0900	25
	VARANASHI 2	IND	83E00 25N20	A20	100	22.1				A	120	3	0900—0300	
	BOGOR SEMPLAK	INS	106E47 06S36	A18	10	10.4				A	60	5	2200—1700	
	JAZIREH SERRI	IRN	54E30 25N55	A20	400	29.0	210	320— 90		B		4	0200—2100	
	KERMAN	IRN	56E58 30N15	A20	10	10.4				A	60	3	0300—1400	
	TEL AVIV 3	ISR	34E47 32N04	D 9	10	10.4				A	50	3	0000—2400	33
	TOKYO	J	139E59 35N23	A15	100	22.1				A	122	4	0000—2400	
	MASAN	KOR	128E35 35N08	C10	10	12.1				A	100	4	0000—2400	
	RYWON	KRE	128E40 40N21	A16	30	16.9				A	105		2000—1800	
S	KOBDO	MNG	91E48 48N10	A18	5	9.1				A	120	5	2200—1500	
S	ULAN GOM	MNG	92E00 50N00	A18	5	9.1				A	120	5	2200—1500	
S	ULIASUTAI	MNG	96E50 47N40	A18	5	9.1				A	120	5	2200—1500	
	KEFFI	NIG	07E45 08N50	C 9	20	13.6				A	75	4	0500—2300	
S	MURUPARA	NZL	176E38 38S28	A20	1	0.4				A	50	5	0000—2400	
S	WHAKATANE	NZL	176E54 38S03	A20	2	3.4				A	50	4	0000—2400	
	MALABON RIZAL	PHL	120E57 14N40	C 9	10	10.6				A	75	3	2100—1600	
	OZAMIS CITY	PHL	123E50 08N08	C 9	5	7.6				A	75	3	2100—1600	
	GOZ BEIDA	TCD	21E26 12N14	C 9	1	0.4				A			0400—2300	
	ROI ET	THA	103E38 16N03	A20	10	10.4				A	54	3	0000—2400	
	SURAT THANI	THA	99E18 09N08	A20	50	20.0	200			B		3	0000—2400	
S	DONETSK	UKR	37E29 47N56	A16	30	14.8				A	190	4	0000—2400	
S	KIEV	UKR	30E49 50N30	A16	150	21.8				A	190	4	0000—2400	
S	ODESSA	UKR	30E45 46N29	A16	30	14.8				A	190	4	0000—2400	
S	SIMFEROPOL	UKR	34E06 44N56	A16	50	17.0				A	190	4	0000—2400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1242	S	TIRASPOL	URS	29E37 46N50	A16	20	13.0				A	190	4	0000—2400	
2	(80)	S	VOLOTCHISK	URS	26E20 48N30	A16	50	17.0				A	190	4	0000—2400	
3			MODRICA	YUG	18E19 44N54	D 9	1	0.4				A	40	3	0800—1500	7
4			OHRID 1	YUG	20E47 41N08	D 9	10	10.4				A	60	4	0000—2400	
5			STUDENT	YUG	14E29 46N03	D 9	1	0.4				A	50	6	0800—1600	
6			MWENEDITU	ZAI	23E10 06S13	C 9	1	0.4				A	60	8	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1251		MENONGUE	AGL	17E40 14S40	A20	5	7.4				A	62	3	0000—2400	
2	(81)		DHAHRAN	ARS	50E06 26N18	A20	0.1	−9.6				A	38	4	0100—2400	24
3			GHAWAR	ARS	49E15 24N58	A20	0.1	−9.6				A	38	4	0100—2400	24
4			RIYADH	ARS	46E23 24N30	C 9	20	15.1				A	120	4	0400—1400	24
5			UDHAILIYAH	ARS	49E42 25N09	A20	0.1	−9.6				A	38	4	0100—2400	24
6			UTHMANIYA	ARS	49E17 25N15	A20	0.1	−9.6				A	38	4	0100—2400	24
7			DUBBO NSW	AUS	148E40 32S16	A20	5	7.6				A	96	3	1900—1400	
8			APLAHOUE	BEN	01E40 06N57	C10	5	7.4				A	60	4	0500—2400	
9			HEFEI	CHN	117E19 31N46	A20	5	7.4				A	50	4	2000—1800	
10		S	MADO	CHN	98E14 34N50	A20	20	13.4				A	60	5	2000—1800	
11		S	XINING	CHN	101E50 36N35	A20	100	22.1				A	120	5	2000—1800	
12		S	YUSHU 2	CHN	97E00 33N00	A20	10	10.4				A	60	5	2000—1800	
13			MAKALE	ETH	39E28 13N31	C 9	10	10.4				A	60	3	0400—2100	
14			BURY S EDMUNDS	G	00E46 52N17	A20	0.6	−0.8	280			B		4	0000—2400	
15			FRANCEVILLE	GAB	13E33 01S36	C 9	2	3.4				A		5	0400—2400	
16			TAM MEI	HKG	114E04 22N29	A20	10	10.4				A	60	4	0700—1600	
17		S	BALATONSZABADI	HNG	18E07 46N55	D 9	500	30.4				A	145	4	0000—2400	
18		S	NYIREGYHAZA	HNG	21E45 47N56	D18	40	18.1				A	115	4	0000—2400	
19			HULSBERG	HOL	05E51 50N53	D 9	20	13.4				A	85	4	0000—2400	
20			BIKANER	IND	73E22 28N01	A20	20	15.1				A	120	4	0300—0900	25
21			CUTTACK	IND	85E55 20N35	A20	20	15.1				A	120	3	0300—0900	25
22			IMPHAL 1	IND	93E58 24N44	A20	20	15.1				A	120	3	0300—0900	25
23			IMPHAL 2	IND	93E58 24N44	A20	10	12.1				A	120	3	0900—0300	
24			MADRAS	IND	80E17 13N04	A20	20	15.1				A	120	3	0300—1000	25
25			MANGALORE	IND	74E48 12N48	A20	20	15.1				A	120	4	0300—1000	25
26			SANGLI	IND	74E36 16N53	A20	20	15.1				A	120	3	0000—2400	
27			BANDA ATJEH	INS	95E20 05N30	A18	10	10.4				A	61	5	2200—1700	
28			MATARAM	INS	116E08 08S36	A18	10	10.4				A	60	4	2100—1600	
29			DUBLIN 1	IRL	06W18 53N21	A20	20	13.4				A	60	4	0000—2400	
30			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0	90	120—150		B		2	0200—2100	
31			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0		230—260		B				
32			FARAHABAD SARI	IRN	53E04 36N34	A20	20	15.0		330— 50		B				
33			NAHA	J	127E41 26N14	A15	5	7.6				A	68	4	0000—2400	
34			DAEGU	KOR	128E32 35N54	C10	10	10.6				A	83	5	0000—2400	
35			TRIPOLI KM16	LBY	13E00 32N50	D 9	500	33.0	215	2— 70	20.0	B		4	0400—2400	24
36			TULEAR	MDG	43E41 23S28	C 9	5	7.6				A	93	4	0300—2000	
37			AIOUN ATROUSS	MTN	09W33 16N40	B20	20	15.1				A	120		0600—2400	24
38			DOSSO	NGR	03E11 13N03	C 9	1	0.4				A	60	4	0000—2400	
39			AUCKLAND	NZL	174E38 36S51	A20	5	9.1				A	120	3	0000—2400	
40			NOORPURNAURANG	PAK	71E25 29N10	A20	2	3.4				A	33	3	0000—2000	
41			BUTUAN AGUSAN	PHL	125E32 08N57	C 9	1	0.6				A	74	3	2100—1600	
42			SORSOGON SOR	PHL	124E00 12N58	C 9	1	0.6				A	74	3	2100—1600	
43		S	BEREINA	PNG	146E31 08S39	B10	2	3.0				A	30	3	1900—1300	
44		S	KUPIANO 1	PNG	148E13 10S04	B10	2	3.0				A	30	3	1900—1300	
45		S	PT MORESBY	PNG	147E12 09S26	B10	10	10.6				A	80	3	1900—1300	
46		S	TAPINI	PNG	146E59 08S22	B10	2	3.0				A	30	5	1900—1300	
47			SAFOTU	SMO	172W21 13S26	A20	2	3.4				A	50	6	0000—2400	
48			DUSA MAREB	SOM	46E20 05N30	A18	10	10.4				A	60	4	0300—2100	
49			KELO	TCD	15E48 09N18	C 9	1	0.4				A			0400—2300	
50			MPANDA	TGK	31E00 06S30	C 9	10	12.1				A	126	4	0300—2100	
51			BANGKOK	THA	100E30 13N45	A20	20	13.4				A	54	2	0000—2400	
52			DUBAI	UAE	55E16 25N14	C 9	50	17.4				A	60	5	0200—2100	24

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

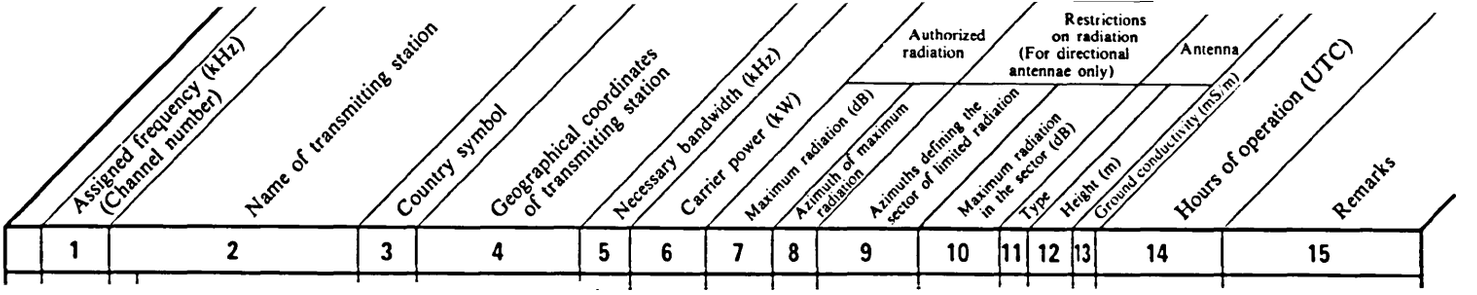
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1251	S	ALEKSANDROVSKO	URS	43E00 44N20	A18	5	7.0				A	190	4	0000—2400	
2	(81)		LENINABAD	URS	69E40 40N17	A18	25	14.0				A	190	4	0000—2400	
3		S	TCHERKESSK	URS	42E02 44N14	A18	5	7.0				A	190	4	0000—2400	
4			VLADIVOSTOK	URS	131E53 43N07	C 9	1000	35.0	45	200—250	20.0	B		4	2200—0800	
5			VLADIVOSTOK	URS	131E53 43N07	C 9	500	32.0	45	200—250	17.0	B		4	0800—2200	
6			GORAZDE	YUG	18E59 43N10	D 9	1	0.6				A	50	4	0800—1500	7

1	Assigned frequency (kHz) (Channel number)		2 Name of transmitting station	3 Country symbol	4 Geographical coordinates of transmitting station	5 Necessary bandwidth (kHz)	6 Carrier power (kW)	Authorized radiation: 7 Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): 8 Azimuth of maximum radiation	9 Azimuths defining the sector of limited radiation	10 Maximum radiation in the sector (dB)	Antenna: 11 Type	12 Height (m)	13 Ground conductivity (mS/m)	14 Hours of operation (UTC)	15 Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1260		DALATANDO	AGL	14E55 09S55	A20	5	7.4				A	62	3	0000—2400	
2	(82)		FIER	ALB	19E35 40N40	A20	1	0.4				A	60	3	0400—2300	
3			DAMMAM	ARS	50E10 26N24	C 9	20	15.1				A	120	3	0000—2400	
4			KARRATHA WA	AUS	116E50 20S44	A20	1	3.4				A	55	4	2100—1600	
5			SHEPPARTON VIC	AUS	145E31 36S23	A20	5	9.1				A	130	2	1900—1400	
6			HORTA	AZR	28W36 38N32	A20	1	0.4				A	60	4	0000—2400	
7			DJOUGOU	BEN	01E40 09N44	C10	10	10.4				A	60	4	0500—2400	
8			DACCA	BGD	90E26 23N43	C 9	10	12.1				A	122	3	0000—1800	
9		S	ANSHAN	CHN	122E58 41N07	A20	20	13.4				A	60	4	2000—1800	
10		S	FUSHUN SHI	CHN	123E53 41N51	A20	10	10.4				A	60	4	2000—1800	
11		S	FUXIN SHI	CHN	121E38 42N02	A20	100	22.1				A	120	4	2000—1800	
12			HEKOU	CHN	103E59 22N32	A20	1	0.4				A	40	5	2000—1800	
13		S	JIANCHANG	CHN	119E48 40N49	A20	50	17.4				A	60	4	2000—1800	
14		S	ONGNIUD QI	CHN	118E54 42N55	A20	50	17.4				A	60	4	2000—1800	
15		S	ZHUANGHE	CHN	123E01 39N41	A20	20	13.4				A	60	4	2000—1800	
16			BANYO	CME	11E48 06N51	C 9	20	15.1				A	119	4	0500—2300	
17			NGAOUNDERE	CME	13E29 07N24	C 9	30	16.9				A	119	4	0500—2300	
18			PRAIA	CPV	23W30 14N55	A18	30	15.2				A	40	6	1900—2400	
19			S M DI GALERIA	CVA	12E19 42N03	D 9	50	18.0	195	07— 40	3.0	B		4	0600—2400	
20			S M DI GALERIA	CVA	12E19 42N03	D 9	50	18.0		90—140	3.0	B				
21			S M DI GALERIA	CVA	12E19 42N03	D 9	50	18.0		250—285	7.0	B				
22		S	ALGECIRAS	E	05W28 36N05	D 9	5	7.4				A	60	4	0000—2400	
23		S	BADAJOZ	E	06W56 38N51	D 9	5	7.4				A	50	4	0000—2400	
24		S	ORENSE	E	07W50 42N20	D 9	5	7.4				A	60	5	0000—2400	19
25		S	PALENCIA	E	04W30 42N00	D 9	5	7.4				A	60	4	0000—2400	19
26		S	S SEBASTIAN	E	01W57 43N19	D 9	10	10.4				A	60	4	0000—2400	
27		S	SANTIAGO	E	08W32 42N52	D 9	10	10.4				A	40	5	0000—2400	
28		S	VALENCIA	E	00W20 39N24	D 9	20	13.4				A	80	4	0000—2400	
29			HARRAR	ETH	42E08 09N18	C 9	10	10.4				A	60	3	0400—2100	
30			BRISTOL	G	02W28 51N30	A20	0.8	1.2	225			B		4	0000—2400	
31			LEICESTER	G	01W08 52N37	A20	0.2	−6.8				A	50	3	0000—2400	
32			WREXHAM	G	02W54 53N06	A20	0.5	−2.0	270	50—130	−18.0	B		4	0000—2400	
33			RHODOS	GRC	28E10 36N15	C 9	500	33.0	135	240—250	5.0	B		3	0000—2400	
34			RHODOS	GRC	28E10 36N15	C 9	500	33.0		20— 30	5.0	B				
35			AMBIKAPUR 1	IND	83E04 23N10	A20	300	26.9				A	120	4	0300—0900	25
36			AMBIKAPUR 2	IND	83E04 23N10	A20	50	19.0	110	275—295	13.0	B		4	0900—0300	
37			BARODA	IND	73E16 22N17	A20	20	15.1				A	120	3	0300—0900	25
38			JAMMU	IND	74E49 32N47	A20	20	15.1				A	120	4	0300—0900	25
39			MATHURA	IND	77E40 27N30	A20	20	15.1				A	120	3	0300—0900	25
40			SILIGURI	IND	88E30 26N42	A20	20	15.1				A	120	4	0300—0900	25
41			SENDAI	J	140E53 38N23	A15	20	15.1				A	109	4	0000—2400	
42			NAMWEON	KOR	127E23 35N24	C10	10	10.4				A	60	6	0000—2400	
43			ICHON	KRE	126E52 38N28	A16	1	0.0				A	30		2000—1800	
44			ZWEDRU	LBR	08W08 06N04	A20	10	10.4				A	60	5	0500—2400	
45			KUALA DUNGUN	MLA	103E25 04N45	A20	5	7.4				A	61	5	0000—2400	
46			LICHINGA	MOZ	35E08 13S18	C10	50	20.0	100			B		4	0400—2200	
47			AOUPINIE 1	NCL	165E16 21S11	A20	20	13.4				A	60	3	0000—2400	
48			WINDHOEK	NMB	17E06 22S35	A20	100	22.1				A	119	3	0000—2400	
49			CHRISTCHURCH	NZL	172E37 43S31	A20	2	3.4				A	50	4	0000—2400	
50			KHAIRPUR	PAK	68E20 27N15	A20	100	22.1				A	120	4	0000—2400	
51			CEBU CITY	PHL	123E55 10N19	C 9	5	7.6				A	74	3	2100—1600	
52			ROSALES PANG	PHL	120E36 15N53	C 9	1	0.6				A	74	3	2100—1600	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1260	S	BOLESLAWIEC	POL	15E28 51N12	C 9	60	23.0	325	120—180	4.0	B		5	0000—2400	9
2	(82)	S	KIELCE	POL	20E42 50N38	C 9	60	23.0	340	130—190	4.0	B		4	0000—2400	9
3		S	MIASTKO	POL	17E18 53N59	C 9	10	12.1				A	109	5	0000—2400	9
4		S	NOWY TARG	POL	20E00 49N31	C 9	10	12.1				A	109	5	0000—2400	9
5		S	OPOLE	POL	18E09 50N37	C 9	60	23.0	330	120—180	4.0	B		5	0000—2400	9
6		S	SUWALKI	POL	22E27 54N00	C 9	60	19.9				A	109	4	0000—2400	9
7		S	SZCZECIN	POL	14E34 53N30	C 9	160	24.1				A	109	4	0000—2400	9
8			MUSOMA	TGK	34E00 01S50	C 9	20	15.1				A	121	4	0300—2100	
9			CHIANG RAI	THA	99E51 19N56	A20	50	17.6				A	80	5	0000—2400	
10		S	KCHENSKII	URS	37E42 51N48	A18	5	7.0				A	190	4	0000—2400	
11		S	KUZEMA	URS	34E12 65N22	A18	5	7.0				A	190	4	0000—2400	
12		S	LENDERY	URS	31E14 63N22	A18	5	7.0				A	190	4	0000—2400	
13		S	SUKHINITCHI	URS	32E56 54N04	A18	5	7.0				A	190	4	0000—2400	
14		S	TCHEREMKHOVO	URS	103E05 53N10	A18	5	7.0				A	190	4	0000—2400	
15		S	USTKAMENOGORSK	URS	82E36 49N55	A18	100	20.0				A	190	4	0000—2400	



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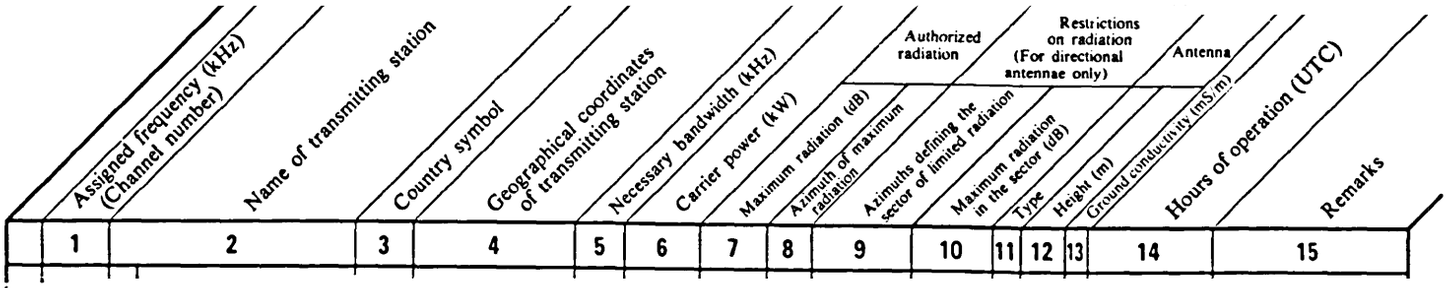
1	1269		SYDNEY NSW	AUS	151E04 33S50	A20	5	9.1				A	123	4	0000—2400	
2	(83)		DEHUA	CHN	118E15 25N30	A20	200	25.1				A	120	4	2000—1800	
3			LINHE	CHN	107E20 40N44	A20	10	10.4				A	60	4	2000—1800	
4			NANNING	CHN	108E18 22N48	A20	50	17.0				A	120	4	2000—1800	
5		S	XIAOYI	CHN	111E48 37N07	A20	20	13.4				A	60	4	2000—1800	
6		S	XIN XIAN	CHN	112E40 38N25	A20	10	10.4				A	60	4	2000—1800	
7		S	YANGCHENG	CHN	112E25 35N29	A20	10	10.4				A	60	4	2000—1800	
8		S	ZUOQUAN	CHN	113E22 37N05	A20	20	13.4				A	60	4	2000—1800	
9			LA OROTAVA	CNR	16W30 28N25	A20	20	13.4				A	50	5	0000—2400	
10			IMPFONDO	COG	18E03 01N39	A20	10	10.4				A	59	5	0000—2400	
11			NEUMUENSTER	D	09E51 54N03	D 9	600	28.2				A	65	3	0400—1800	7
12			NEUMUENSTER	D	09E51 54N03	D 9	600	30.5	20	135—145	9.5	B		3	1800—0400	
13			NEUMUENSTER	D	09E51 54N03	D 9	600	30.5	250	135—145	9.5	B				
14			AGARTALA	IND	91E23 23N50	C 9	20	15.1				A	120	3	0000—2400	
15			HYDERABAD	IND	78E30 17N20	A20	20	15.1				A	120	3	0300—1000	25
16			JAIPUR	IND	75E47 26N55	A20	1	0.0				A	40	4	0000—2400	
17			JAISALMER	IND	70E57 26N55	A20	20	15.1				A	120	4	0000—2400	
18			PONDICHERRY 1	IND	79E54 12N00	A20	20	15.1				A	120	3	0300—1000	25
19			PONDICHERRY 2	IND	79E54 12N00	A20	10	12.1				A	120	3	1000—0300	
20			RATNAGIRI	IND	73E22 17N00	A20	20	15.1				A	120	3	0300—1000	25
21			TEZU	IND	96E15 27N50	A20	20	15.1				A	120	4	0300—0900	25
22			PONTIANAK	INS	109E16 00S05	A18	10	10.4				A	60	5	2100—1600	
23			OBIHIRO	J	143E18 42N52	A15	5	7.6				A	93	4	0000—2400	
24			TOKUSHIMA	J	134E36 34N06	A15	5	11.0	245			B		5	0000—2400	
25			NYERI	KEN	36E55 00S27	C 9	20	15.1				A	100	4	0000—2400	
26			KURYE	KOR	127E27 35N12	C10	1	0.4				A	60	6	0000—2400	
27			YANGJOO	KOR	127E03 37N50	C10	10	10.6				A	84	6	0000—2400	
28			KUWAIT	KWT	48E20 29N34	A20	100	27.0	150	210—090	18.0	B		8	0000—2400	24
29			MOPTI	MLI	04W11 14N28	C 9	4	6.4				A	59		0600—2400	
30			WUKARI	NIG	09E50 07N50	C 9	20	13.6				A	75	4	0500—2300	
31			TAKAKA	NZL	172E49 40S52	A20	1	0.4				A	50	5	0000—2400	
32			DAET CAMARINES	PHL	122E55 14N07	C 9	5	7.6				A	73	3	2100—1600	
33			KIDAPAWAN COT	PHL	124E48 06N28	C 9	5	7.6				A	92	3	2100—1600	
34			SONGKHLA	THA	100E31 07N07	A20	20	13.4				A	56	3	0000—2400	
35			OGUZELI	TUR	37E31 37N00	D 9	50	22.0	90			B		4	0200—2300	
36			KOR FAKAN	UAE	56E18 25N48	C 9	50	19.1				A	130	7	0200—2200	24
37			BLAGOVECHTCHEN	URS	127E33 50N16	A18	5	7.0				A	190	4	0000—2400	
38			FERGANA	URS	71E55 40N20	C10	10	10.0				A	190	4	0000—2400	
39			NOVI SAD	YUG	19E48 45N30	D 9	750	32.1				A	145	2	0600—1800	7
40			NOVI SAD	YUG	19E48 45N30	D 9	750	32.8	75	110—180	30.8	B		2	1800—0600	
41			NOVI SAD	YUG	19E48 45N30	D 9	750	32.8	215	295—355	16.8	B				
42			NOVI SAD	YUG	19E48 45N30	D 9	100	21.0				A	145	2	0000—2400	43/311281
43			MANSA	ZMB	28E53 11S10	A20	10	12.1				A	120	4	0200—2100	



	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1278		KABOUL TSCHARC	AFG	69E12	34N31	C 9	100	20.4				A	58	4	0100—2000	
2	(84)		N REDONDO	AGL	13E54	11S13	A20	5	7.4				A	60	3	0000—2400	
3			MELBOURNE VIC	AUS	145E06	37S44	A20	5	9.1				A	97	2	0000—2400	
4		S	ANCI	CHN	116E42	39N31	A20	10	10.4				A	60	4	2000—1800	
5		S	CANGZHOU	CHN	116E51	38N18	A20	20	13.4				A	60	4	2000—1800	
6		S	FENGNING	CHN	116E39	41N13	A20	50	17.4				A	60	4	2000—1800	
7		S	GAR	CHN	79E58	32N12	A20	10	10.4				A	60	5	2000—1800	
8			HANGZHOU	CHN	120E08	30N16	A20	5	7.4				A	60	4	2000—1800	
9		S	LHAZE	CHN	87E50	29N05	A20	10	10.4				A	60	5	2000—1800	
10		S	LHORONG	CHN	95E43	30N48	A20	50	17.4				A	60	5	2000—1800	
11		S	MARKAM	CHN	98E10	29N30	A20	10	10.4				A	60	5	2000—1800	
12		S	NAGQU	CHN	92E02	31N25	A20	50	17.6				A	70	5	2000—1800	
13		S	NANG XIAN	CHN	93E10	29N05	A20	10	10.4				A	60	5	2000—1800	
14		S	QINHUANGDAO	CHN	119E32	39N55	A20	20	13.4				A	60	4	2000—1800	
15		S	SHIJIAZHUANG	CHN	114E40	37N50	A20	100	22.1				A	120	4	2000—1800	
16		S	WEI XIAN	CHN	115E15	36N58	A20	10	10.4				A	60	4	2000—1800	
17		S	XANZA	CHN	88E42	30N54	A20	50	17.4				A	60	5	2000—1800	
18			XIAMEN	CHN	118E18	24N24	A20	10	10.4				A	60	4	2000—1800	
19		S	YU XIAN	CHN	114E34	39N50	A20	20	13.4				A	60	4	2000—1800	
20		S	ZHONGBA	CHN	84E12	29N39	A20	10	10.4				A	60	5	2000—1800	
21			SANGMELIMA	CME	11E55	02N54	C 9	20	15.1				A	117	5	0500—2300	
22			YAOUNDE	CME	11E32	03N55	C 9	10	12.1				A	117	5	0500—2300	
23			MOHELI	COM	43E44	12S15	A20	10	10.4				A	50	1	0000—2400	
24			ODIENNE	CTI	07W35	09N20	C 9	10	12.1				A		7	0600—2400	
25		S	ASSWAN	EGY	32E57	24N04	D 9	10	12.1				A	100	3	0000—2400	24
26		S	ASYUT	EGY	31E04	27N11	D 9	10	12.1				A	100	3	0000—2400	24
27		S	KENA	EGY	32E43	26N10	D 9	10	12.1				A	100	3	0000—2400	24
28			STRASBOURG	F	07E26	48N15	D 9	300	30.0	20	90—130	18.0	B		4	0000—2400	
29			STRASBOURG	F	07E26	48N15	D 9	300	30.0		270—310	21.0	B				
30			TURKU 2	FNL	22E18	60N26	D 9	45	18.6				A	100	4	0000—2400	
31			BRADFORD	G	01W42	53N47	A20	0.3	−4.8				A	46	3	0000—2400	
32			FLORINA	GRC	21E25	40N48	C 9	20	13.4				A	55	4	0400—2200	
33			AHMEDABAD	IND	72E38	23N02	A20	20	15.1				A	120	3	0300—0900	25
34			BHADRAVATI	IND	75E36	13N53	A20	20	15.1				A	120	3	0300—1000	25
35			BHOPAL	IND	77E36	23N16	A20	20	15.1				A	120	3	0300—0900	25
36			DHANBAD	IND	86E24	23N48	A20	20	15.1				A	120	3	0300—0900	25
37			JEYPORE	IND	82E40	18N51	A20	20	15.1				A	120	4	0300—1000	25
38			LUCKNOW 1	IND	80E52	26N45	A20	300	26.9				A	120	3	0300—0900	25
39			LUCKNOW 2	IND	80E52	26N45	A20	20	15.0	195	305—335	6.0	B		3	0900—0300	
40			DUBLIN 2	IRL	06W14	53N23	A20	20	13.4				A	60	4	0000—2400	
41			KERMANSHAH	IRN	47E07	34N19	A20	100	22.1				A	118	3	0100—2200	
42			BET HILEL	ISR	35E36	33N12	D 9	5	7.4				A	50	4	0000—2400	33
43			FUKUOKA	J	130E26	33N41	A15	50	19.1				A	119	4	0000—2400	
44			KITALE	KEN	34E58	01N01	C 9	5	9.1				A	100	4	0000—2400	
45			HYEOBCHEON	KOR	128E10	35N33	A10	1	0.6				A	80	5	0000—2400	
46			PAEKAM	KRE	128E45	41N15	A16	1	0.0				A	30		2000—1800	
47			MALACCA	MLA	102E15	02N14	A20	10	10.4				A	46	5	2200—1700	
48			ZAGORA	MRC	05W23	30N10	A12	10	10.0				A	175	6	0500—2400	24
49			AKJOUJT	MTN	14W22	19N45	B20	20	15.1				A	118		0600—2400	24
50			NSANJE	MWI	35E16	16S57	A20	2	3.4				A	61	3	0200—2300	
51			NAPIER	NZL	176E52	39S34	A20	2	3.4				A	40	4	0000—2400	
52			SEEB	OMA	58E10	23N40	C 9	20	13.0				A	28	5	0400—1900	
53			CALOOCAN RIZAL	PHL	120E58	14N39	C 9	25	14.6				A	73	3	2100—1600	
54			ILIGAN CITY	PHL	124E15	08N14	C 9	5	7.6				A	73	3	2100—1600	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

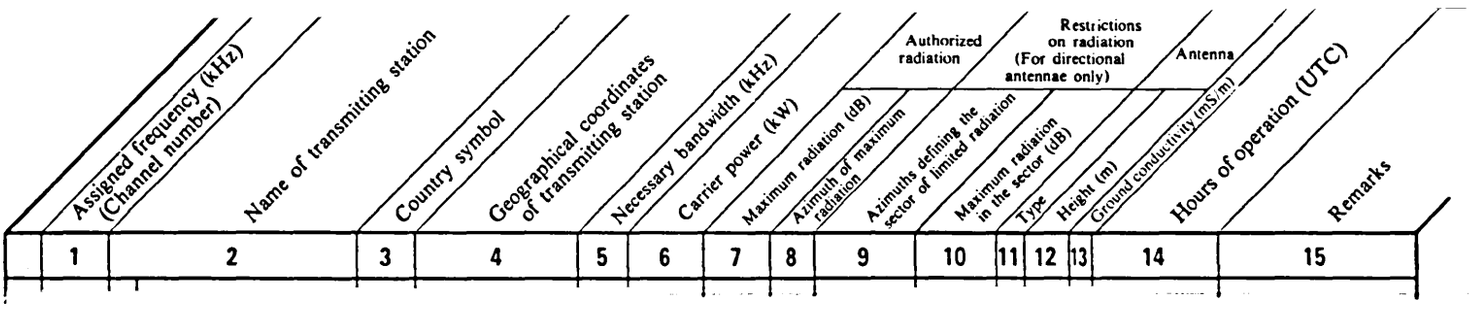
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1278	S	GEMBOGL	PNG	145E06 05S50	B10	2	3.0				A	30	5	1900—1300	
2	(84)	S	KUNDIAWA	PNG	145E03 06S02	B10	10	10.6				A	80	5	1900—1300	
3			PALIME	TGO	00E46 06N52	A20	10	10.4				A	60	4	0000—2400	
4			BANGKOK	THA	100E30 14N45	A20	20	13.4				A	60	2	0000—2400	
5			DENIZLI	TUR	29E00 37N57	D 9	10	10.4				A	50	4	0200—2300	
6			KALANGALA	UGA	32E20 00S20	C 9	2	3.4				A	60	4	0300—2100	
7			MOROTO	UGA	34E39 02N30	C 9	10	10.4				A	55	5	0300—2100	
8		S	ODESSA	UKR	30E45 46N29	C 9	150	26.7	10	150—230	15.7	B		4	0000—2400	
9			BAIKAL	URS	104E47 51N43	A18	5	7.0				A	190	4	0000—2400	
10		S	IJEVSK	URS	53E14 56N49	A18	5	7.0				A	190	4	0000—2400	
11		S	ROSTOV NA DONU	URS	39E43 47N12	A16	50	17.0				A	190	4	0000—2400	
12		S	SARATOV	URS	45E56 51N32	A18	5	7.0				A	190	4	0000—2400	
13		S	ULIANOVSK	URS	48E20 54N19	C10	100	20.0				A	190	4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

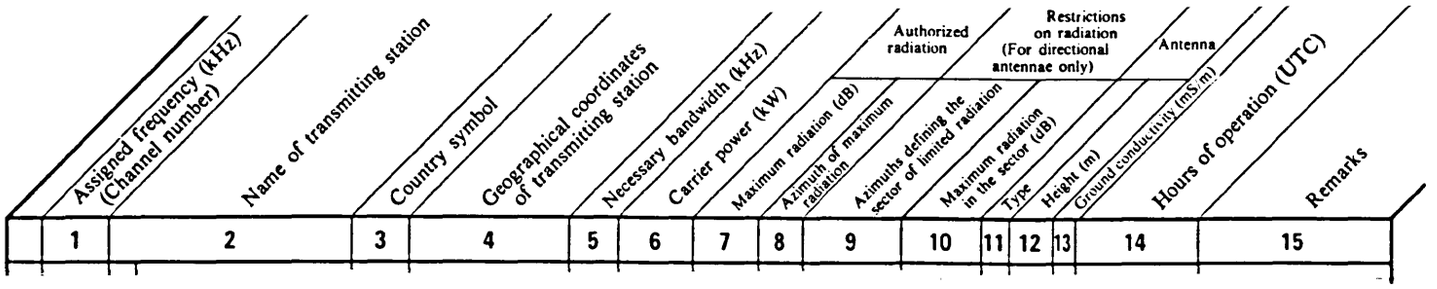
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1287		TIMIMOUN	ALG	00E17 29N14	D 9	20	13.4				A	53	5	0600—2400	24
2	(85)		MECCA	ARS	39E40 21N30	C 9	20	15.1				A	120	4	0000—2400	24
3			TAMWORTH NSW	AUS	150E55 31S10	A20	5	9.1				A	122	4	1900—1400	
4			RUTANA	BDI	29E59 03S55	C 9	1	0.4				A	58	4	0300—2400	
5			BARISAL	BGD	90E23 22N43	A20	10	12.1				A	122	3	0000—1800	
6		S	HAIYUAN	CHN	105E39 36N34	A20	50	17.4				A	60	4	2000—1800	
7			HUIZHOU	CHN	114E24 23N05	A20	5	7.4				A	60	4	2000—1800	
8		S	YINCHUAN	CHN	106E12 38N30	A20	100	22.1				A	120	4	2000—1800	
9			ZHANJIANG	CHN	110E24 21N12	A20	5	7.4				A	60	4	2000—1800	
10			HARRAR	ETH	42E08 09N18	C 9	10	10.4				A	58	3	0400—2100	
11			RAKIRAKI	FJI	178E09 17S22	A20	2.5	4.0				A	30	5	1700—1200	
12			MYTILINI	GRC	26E33 39N07	C 9	5	7.4				A	65	5	0400—2200	
13			POUYTENGA	HVO	00W30 12N10	A20	20	13.6				A	72	4	0000—2400	
14			CHHATARPUR 1	IND	79E33 24N52	A20	100	22.0	225	85—115	13.0	B		3	0900—0300	
15			CHHATARPUR 2	IND	79E33 24N52	A20	300	26.9				A	115	3	0300—0900	25
16			GAUHATI	IND	91E47 26N11	A20	20	15.1				A	120	3	0300—0900	25
17			JAIPUR	IND	75E50 26N54	A20	20	15.1				A	120	4	0300—0900	25
18			SIMLA	IND	77E12 31N10	A20	20	15.1				A	120	4	0300—0900	25
19			PALEMBANG	INS	104E45 02S59	A18	50	17.0				A	159	3	2200—1700	
20			LAR	IRN	54E18 27N45	A20	20	13.4				A	57	3	0200—2100	
21			TEL AVIV 1	ISR	34E50 31N50	D 9	100	23.0				A	150	3	0000—2400	33
22			SAPPORO	J	141E32 43N08	A15	50	19.1				A	124	4	0000—2400	
23			CHEONGJU	KOR	127E29 36N40	C10	1	2.1				A	120	6	0000—2400	
24			GANGNEUNG	KOR	128E55 37N47	C10	10	10.6				A	80	6	0000—2400	
25			KAESONG	KRE	126E34 37N59	A16	30	15.2				A	50		2000—1800	
26			ZINDER	NGR	09E00 13N40	C 9	25	16.1				A	120	4	0000—2400	
27			WESTPORT	NZL	171E28 41S51	A20	2	3.4				A	50	6	0000—2400	
28			SAN FERNANDO P	PHL	120E42 15N10	D 9	200	26.0	150	310—350	13.0	B		3	0000—2400	
29		S	BEJA	POR	07W52 37N59	A20	10	10.4				A	60	3	0000—2400	
30		S	LISBOA	POR	09W12 38N44	A20	10	10.4				A	60	3	0000—2400	
31		S	PORTALEGRE	POR	07W25 39N18	A20	1	0.4				A	60	5	0000—2400	
32			KAOLACK	SEN	16W07 14N10	C 9	20	13.4				A	45	4	0600—2400	
33			BRATISLAVA	TCH	17E44 48N31	C 9	30	15.4				A	60	5	0400—1700	7
34		S	CESKOSLOV 2	TCH	13E23 49N45	C 9	1500	35.2				A	135	4	0000—2400	
35		S	MOR BUDEJOVICE	TCH	15E48 49N04	C 9	30	16.9				A	100	5	0000—2400	
36		S	PRAHA MESTO	TCH	14E23 49N58	C 9	30	15.2				A	60	5	0000—2400	
37		S	PRESOV	TCH	21E16 48N57	C 9	50	19.1				A	100	5	0000—2400	
38		S	CHIANG RAI	THA	99E48 19N54	A20	10	10.4				A	58	5	0000—2400	
39		S	N SITHAMMARAT	THA	99E48 08N10	A20	10	10.4				A	58	3	0000—2400	
40		S	UBON	THA	104E52 15N16	A20	10	10.4				A	58	4	0000—2400	
41		S	BATUMI	URS	41E19 41N39	A18	5	7.0				A	190	4	0000—2400	
42		S	ENISEISK	URS	92E05 58N27	A18	5	7.0				A	190	4	0000—2400	
43		S	KALUGA	URS	36E19 54N37	A18	5	7.0				A	190	4	0000—2400	
44		S	KIAKHTA	URS	106E40 50N45	A18	5	7.0				A	190	4	0000—2400	
45		S	KYZYL	URS	94E28 51N43	A18	5	7.0				A	190	4	0000—2400	
46		S	NOVOKUZNETSK	URS	87E07 53N45	A18	5	7.0				A	190	4	0000—2400	
47			SEROV	URS	60E34 59N36	A18	5	7.0				A	190	4	0000—2400	
48			KOCANI	YUG	22E25 41N55	D 9	1	0.6				A	40	4	0800—1500	7
49			PETRINJA	YUG	16E17 45N27	D 9	1	0.6				A	50	3	0800—1500	7
50			BUTEMBO	ZAI	29E10 00N10	C 9	1	0.4				A	60	8	0000—2400	
51			MBANDAKA	ZAI	18E16 00N02	C 9	2	3.4				A	60	6	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1296	KANDAHAR	AFG	65E40 31N40	C 9	1000	33.0	270	120–240	27.0	B		4	0100–2000	
2	(86)	UIGE	AGL	15E08 07S40	C10	5	7.4				A	58	3	1700–0100	
3		MEDINAH	ARS	39E33 24N28	C 9	50	19.1				A	120	4	0400–1400	24
4		BRISBANE QLD	AUS	153E07 27S28	A20	5					B		3	0000–2400	
5		MT GAMBIER SA	AUS	140E43 37S48	A20	5					B		3	1900–1400	
6	S	CHOUMEN	BUL	26E38 42N59	A18	30	18.2				A	142	3	0300–2400	
7	S	KARDJALI	BUL	25E12 41N29	A18	30	15.4				A	88	5	0300–2400	
8		BENXI SHI	CHN	123E38 41N10	A20	10	10.4				A	60	4	2000–1800	
9		KUNMING	CHN	102E50 25N10	A20	300	26.9				A	120	5	2000–1800	
10		SHANGHAI	CHN	121E29 31N15	A20	20	13.4				A	60	3	2000–1800	
11		XIAN	CHN	108E54 34N12	A20	5	7.4				A	60	4	2000–1800	
12		YOKADOUMA	CME	15E00 03N27	C 9	10	12.1				A	115	5	0500–2300	
13		ORFORDNESS	G	01E35 52N06	D10	500	36.0	95			B		3	0000–2400	
14		TAMALE	GHA	00W52 09N27	C 9	10	10.0				A	180	4	0500–2300	
15		GIBRALTAR	GIB	05W20 36N08	C10	50	20.0	180			B		3	0000–2400	
16		MIRAI	GRC	24E52 35N04	C 9	10	10.4				A	55	4	0400–2200	
17		TUMBO	GUI	13W39 09N36	C 9	50	17.4				A	58	4	0000–2400	
18		CUDDAPAH	IND	78E49 14N29	A20	20	15.1				A	120	3	0300–1000	25
19		DARBHANGA 1	IND	85E56 26N08	A20	20	15.1				A	120	3	0300–0900	25
20		DARBHANGA 2	IND	85E56 26N08	A20	20	15.1				A	120	3	0900–0300	
21		NAJIBABAD	IND	78E12 29N24	A20	20	15.1				A	115	3	0300–0900	25
22		PALGHAT 1	IND	76E42 10N48	A20	300	26.9				A	120	4	0300–1000	25
23		PALGHAT 2	IND	76E42 10N48	A20	100	22.1				A	120	4	1000–0300	
24		PANAJI GOA	IND	73E51 15N28	A20	20	15.1				A	120	4	0300–1000	25
25		SEMNAN	IRN	53E23 35N33	A20	10	10.4				A	58	3	0300–1400	
26		MATSUE	J	132E45 35N22	A15	10	13.4				A	136	4	0000–2400	
27		KYENGSON	KRE	129E37 41N35	A16	5	7.0				A	30		2000–1800	
28		BEIRA	MOZ	34E44 19S36	C10	10	10.4				A	60	4	0400–2200	
29		RABAT	MRC	06W55 33N54	A18	1	0.4				A	48	4	0600–2400	24
30		HAMILTON	NZL	175E20 37S48	A20	5	7.4				A	50	3	0000–2400	
31		BATANGAS BAT	PHL	121E05 13N45	C 9	1	0.6				A	72	3	2100–1600	
32		CAGAYAN DE ORO	PHL	124E39 08N29	C 9	1	0.6				A	72	3	2100–1600	
33		SANTI ISABELA	PHL	121E32 16N41	C 9	1	0.6				A	72	3	2100–1600	
34		SENNAR	SDN	33E36 13N31	A20	1500	34.0	180			B		3	0400–2400	23/URS 24
35		PATTANI	THA	101E16 06N47	A20	50	17.4				A	58	3	0000–2400	
36		BAKU	URS	49E45 40N24	C10	150	21.8				A	190	4	0000–2400	23/SDN
37		DUCHANBE	URS	68E49 38N34	A16	1000	30.0				A	190	4	0000–2400	
38		LOZNICA	YUG	19E14 44N31	D 9	10	10.4				A	45	4	0600–1800	
39		VRANJE	YUG	21E54 42N33	D 9	10	10.4				A	45	4	0000–2400	

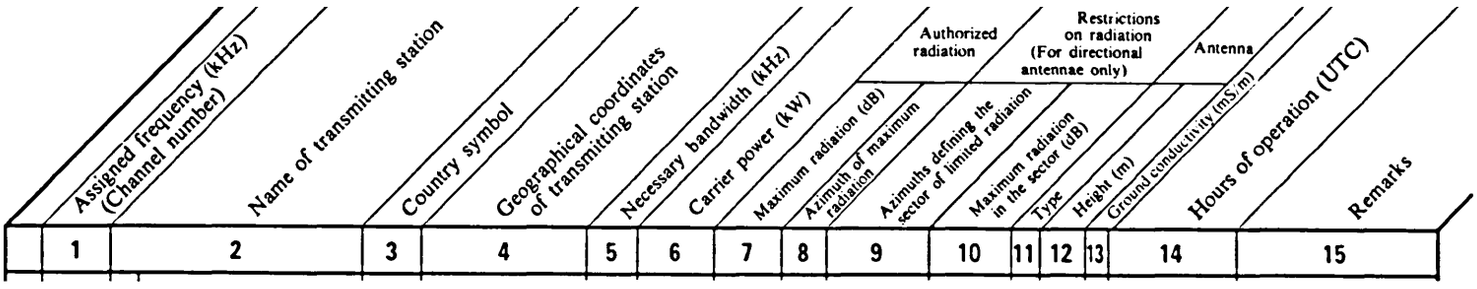


	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1305		GJIROKASTER	ALB	20E10	40N04	A20	15	13.9				A	115	5	0500—2200	
2	(87)		CONSTANTINE	ALG	06E38	36N23	D 9	40	16.6				A	75	4	0600—2400	24
3			BROOME WA	AUS	122E15	18S00	A20	10	12.1				A		3	2100—1600	
4			ORBOST VIC	AUS	148E30	37S30	A20	10	12.1				A		2	1900—1400	
5			AYE MARCHE	BEL	05E17	50N12	D 9	50	17.0	350	230—280	9.0	B		4	0000—2400	
6			AYE MARCHE	BEL	05E17	50N12	D 9	50	17.0		60—100	7.0	B				
7		S	ABGANAR QI	CHN	116E08	43N56	A20	10	10.4				A	60	4	2000—1800	
8		S	AKSU	CHN	80E19	41N03	A20	10	10.4				A	60	4	2000—1800	
9		S	ALTAY	CHN	88E18	47N50	A20	10	10.4				A	60	4	2000—1800	
10		S	ANYANG SHI	CHN	114E22	36N08	A20	20	13.4				A	60	4	2000—1800	
11		S	BAOTOU	CHN	109E56	40N40	A20	20	13.4				A	60	4	2000—1800	
12		S	BAQEN	CHN	93E43	32N01	A20	10	10.4				A	60	5	2000—1800	
13		S	BARKAM	CHN	102E27	31N42	A20	5	7.4				A	60	4	2000—1800	
14		S	BEIHAI	CHN	109E07	21N29	A20	10	10.4				A	60	4	2000—1800	
15		S	BOLE	CHN	82E08	44N54	A20	10	10.4				A	60	4	2000—1800	
16		S	BOSE	CHN	106E37	23N54	A20	20	13.4				A	60	4	2000—1800	
17		S	CHONGQING	CHN	106E30	29N45	A20	20	13.4				A	60	4	2000—1800	
18		S	COMA	CHN	91E28	28N28	A20	10	10.4				A	60	5	2000—1800	
19		S	DAMXUNG	CHN	91E10	30N35	A20	10	10.4				A	60	5	2000—1800	
20		S	DANBA	CHN	101E53	30N53	A20	2	3.4				A	60	4	2000—1800	
21		S	DANDONG	CHN	124E22	40N07	A20	10	10.4				A	60	4	2000—1800	
22		S	DANGCHANG	CHN	104E25	33N55	A20	5	7.4				A	60	4	2000—1800	
23		S	DEGE	CHN	98E37	31N46	A20	5	7.4				A	60	4	2000—1800	
24		S	DONG UJUMQIN	CHN	116E56	45N30	A20	10	10.4				A	60	4	2000—1800	
25		S	DONGCHUAN	CHN	103E18	26N08	A20	10	10.4				A	60	5	2000—1800	
26		S	DUKOU	CHN	101E43	26N35	A20	5	7.4				A	60	4	2000—1800	
27		S	DUNHUANG	CHN	94E37	40N09	A20	5	7.4				A	60	4	2000—1800	
28		S	FENG XIAN	CHN	106E30	33N55	A20	5	7.4				A	60	4	2000—1800	
29		S	FU XIAN 1	CHN	122E00	39N38	A20	5	7.4				A	60	4	2000—1800	
30		S	FU XIAN 2	CHN	109E21	35N59	A20	50	17.4				A	60	4	2000—1800	
31		S	GERZE	CHN	84E15	32N20	A20	50	17.4				A	60	5	2000—1800	
32		S	GUIYANG	CHN	106E36	26N25	A20	50	17.4				A	60	5	2000—1800	
33		S	GUSHI	CHN	115E40	32N10	A20	10	10.4				A	60	4	2000—1800	
34		S	HAMI	CHN	93E20	42N50	A20	10	10.4				A	60	4	2000—1800	
35		S	HECHI	CHN	108E03	24N42	A20	10	10.4				A	60	4	2000—1800	
36		S	HEKOU	CHN	103E59	22N32	A20	10	10.4				A	60	5	2000—1800	
37		S	HENGSHUI	CHN	115E42	37N44	A20	10	10.4				A	60	4	2000—1800	
38		S	HUAILAI	CHN	115E31	40N23	A20	10	10.4				A	60	4	2000—1800	
39		S	HUHHOT	CHN	111E30	41N12	A20	50	17.4				A	60	4	2000—1800	
40		S	JIAOZUO	CHN	113E14	35N15	A20	10	10.4				A	60	4	2000—1800	
41		S	JINZHOU	CHN	121E07	41N07	A20	20	13.4				A	60	4	2000—1800	
42		S	KARAMAY	CHN	85E00	45N32	A20	10	10.4				A	60	4	2000—1800	
43		S	KORLA	CHN	86E10	41N44	A20	10	10.4				A	60	4	2000—1800	
44		S	LANKAO	CHN	114E48	34N48	A20	5	7.4				A	60	4	2000—1800	
45		S	LIJIANG	CHN	100E15	26N55	A20	20	13.4				A	60	5	2000—1800	
46		S	LINCANG	CHN	100E02	23N52	A20	20	13.4				A	60	5	2000—1800	
47		S	LINXIA	CHN	102E55	35N19	A20	5	7.4				A	60	4	2000—1800	
48		S	LONGHUA	CHN	117E43	41N19	A20	10	10.4				A	60	4	2000—1800	
49		S	LUCHUN	CHN	102E20	23N00	A20	10	10.4				A	60	5	2000—1800	
50		S	LUXI	CHN	98E34	24N27	A20	20	13.4				A	60	5	2000—1800	
51		S	MADO	CHN	98E14	34N50	A20	20	13.4				A	60	5	2000—1800	
52		S	MEDO	CHN	95E13	29N18	A20	10	10.4				A	60	5	2000—1800	
53		S	NANNING	CHN	108E18	22N48	A20	50	17.4				A	60	4	2000—1800	
54		S	NANYANG SHI	CHN	112E32	33N00	A20	20	13.4				A	60	4	2000—1800	



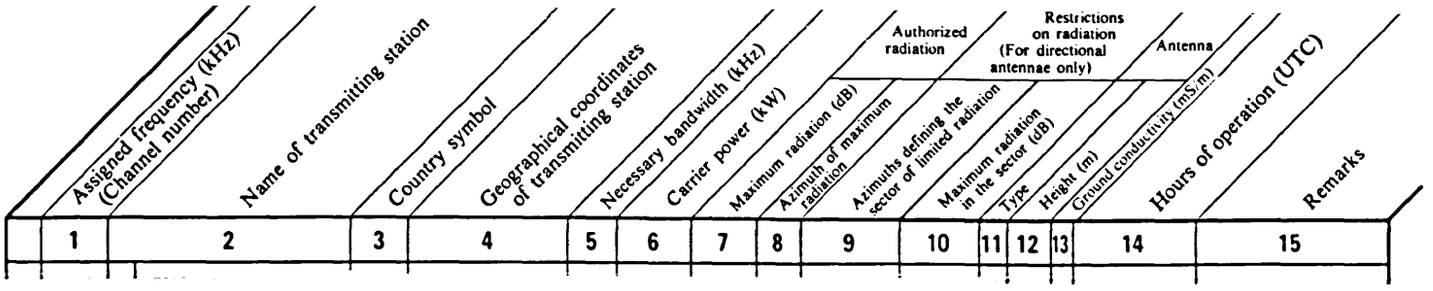
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1305	S	NEIJIANG SHI	CHN	105E15 29N39	A20	2	3.4				A	60	4	2000-1800	
2	(87)	S	PINGLE	CHN	110E38 24N38	A20	10	10.4				A	60	4	2000-1800	
3		S	PUTIAN	CHN	119E01 25N25	A20	10	10.4				A	60	4	2000-1800	
4		S	QABDO	CHN	97E05 31N11	A20	50	17.4				A	60	5	2000-1800	
5		S	QINGYUAN	CHN	124E55 42N06	A20	5	7.4				A	60	4	2000-1800	
6		S	QIUBEI	CHN	104E11 24N02	A20	20	13.4				A	60	5	2000-1800	
7		S	QOG QI	CHN	106E58 41N28	A20	10	10.4				A	60	4	2000-1800	
8		S	RUYANG	CHN	112E28 34N09	A20	10	10.4				A	60	4	2000-1800	
9		S	SAGA	CHN	85E18 29N25	A20	10	10.4				A	60	5	2000-1800	
10		S	SANMENXIA	CHN	111E13 34N46	A20	10	10.4				A	60	4	2000-1800	
11		S	SANMING	CHN	117E36 26N14	A20	50	17.4				A	60	4	2000-1800	
12		S	SHANG XIAN	CHN	109E53 33N52	A20	20	13.4				A	60	4	2000-1800	
13		S	SHANGHAI	CHN	121E29 31N15	A20	50	17.4				A	60	3	2000-1800	
14		S	SHIMIAN	CHN	102E27 29N12	A20	1	0.4				A	60	4	2000-1800	
15		S	SHIZUISHAN	CHN	106E40 39N09	A20	10	10.4				A	60	4	2000-1800	
16		S	SONGZHENG	CHN	118E45 27N32	A20	10	10.4				A	60	4	2000-1800	
17		S	TANGSHAN	CHN	118E13 39N38	A20	50	17.4				A	60	4	2000-1800	
18		S	TONGREN 2	CHN	109E13 27N43	A20	20	13.4				A	60	5	2000-1800	
19		S	TONGZI	CHN	106E49 28N08	A20	5	7.4				A	60	5	2000-1800	
20		S	WANXIAN SHI	CHN	108E33 30N52	A20	20	13.4				A	60	4	2000-1800	
21		S	WEINING	CHN	104E17 26N52	A20	20	13.4				A	60	5	2000-1800	
22		S	WUPING	CHN	116E06 25N05	A20	10	10.4				A	60	4	2000-1800	
23		S	WUWEI	CHN	102E33 37N57	A20	5	7.4				A	60	4	2000-1800	
24		S	XIAGUAN	CHN	100E13 25N34	A20	10	10.4				A	60	5	2000-1800	
25		S	XIANGHUANG QI	CHN	113E43 42N18	A20	50	17.4				A	60	4	2000-1800	
26		S	XIFENGZHEN	CHN	107E30 35N48	A20	5	7.4				A	60	4	2000-1800	
27		S	XIGAZE	CHN	89E00 29N20	A20	10	10.4				A	60	5	2000-1800	
28		S	XINGYI	CHN	104E52 25N07	A20	10	10.4				A	60	5	2000-1800	
29		S	XINING	CHN	101E50 36N35	A20	20	13.4				A	60	5	2000-1800	
30		S	XINYANG SHI	CHN	114E04 32N10	A20	20	13.4				A	60	4	2000-1800	
31		S	XUCHANG SHI	CHN	113E48 34N02	A20	5	7.4				A	60	4	2000-1800	
32		S	YAAN	CHN	103E01 29N59	A20	5	7.4				A	60	4	2000-1800	
33		S	YAJIANG	CHN	100E57 30N05	A20	5	7.4				A	60	4	2000-1800	
34		S	YANCHI	CHN	107E30 37N47	A20	50	17.4				A	60	4	2000-1800	
35		S	YECHENG	CHN	77E22 37N55	A20	20	13.4				A	60	4	2000-1800	
36		S	YIBIN SHI	CHN	104E37 28N46	A20	5	7.4				A	60	4	2000-1800	
37		S	YOUYANG	CHN	108E46 28N51	A20	10	10.4				A	60	4	2000-1800	
38		S	YULIN 2	CHN	110E08 22N37	A20	10	10.4				A	60	4	2000-1800	
39		S	YUSHU 2	CHN	97E00 33N00	A20	10	10.4				A	60	5	2000-1800	
40		S	ZAMDA	CHN	79E46 31N28	A20	10	10.4				A	60	5	2000-1800	
41		S	ZHANGWU	CHN	122E29 42N24	A20	10	10.4				A	60	4	2000-1800	
42		S	ZHANGYE	CHN	100E30 38N54	A20	10	10.4				A	60	4	2000-1800	
43		S	ZHANGZHOU	CHN	117E40 24N30	A20	20	13.4				A	60	4	2000-1800	
44		S	ZHUMADIAN	CHN	114E02 32N59	A20	5	7.4				A	60	4	2000-1800	
45		S	ZICHANG	CHN	109E40 37N09	A20	10	10.4				A	57	4	0400-2100	
46			KOTUGODA	CLN	79E55 07N08	C10	100	23.0	40			B		5	0000-1800	
47			MINDOULI	COG	14E50 04S15	A20	10	10.4				A	57	5	0000-2400	
48			BAHAR DAR	ETH	37E27 11N20	C 9	10	10.4				A	57	3	0400-2100	
49			PARBHANI 1	IND	76E50 19N08	A20	300	26.9				A	120	3	0300-1000	25
50			PARBHANI 2	IND	76E50 19N08	A20	50	19.1				A	120	3	1000-0300	
51			PASIGHAT	IND	95E20 28N06	A20	20	15.1				A	115	4	0300-0900	25
52			RAIPUR	IND	81E41 21N15	A20	20	15.1				A	115	3	0300-0900	25

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1305		SURATGARH	IND	73E54 29N24	A20	20	15.1				A	115	3	0300—0900	25
2	(87)		MENADO	INS	124E55 01N32	A18	10	10.4				A	65	5	2100—1600	
3			PALENGKARAJA	INS	113E11 02S02	A18	5	7.4				A	57	6	2100—1600	
4			ATHLONE	IRL	07W57 53N26	A20	2	3.4				A	50	4	0000—2400	
5			BUSHEHR	IRN	50E50 28N59	A20	20	13.4				A	57	3	0200—2100	
6			EILAT	ISR	35E00 29N40	D 9	10	12.1				A	120	3	0000—2400	33
7			HAIFA	ISR	35E03 32N49	D 9	20	15.1				A	120	3	0000—2400	33
8			MOMBASA	KEN	39E40 04S05	C 9	20	15.1				A	100	4	0000—2400	
9			ULJIN	KOR	129E24 36N58	C10	10	10.6				A	80	6	0000—2400	
10			MUNDOK	KRE	125E36 39N29	A16	1	0.4				A	30		2000—1800	
11			TINRHIR	MRC	05W20 31N33	A18	25	17.4				A	150	5	0600—2400	24
12			DUNEDIN	NZL	170E35 45S53	A20	10	12.1				A	120	4	0000—2400	
13			KALAT	PAK	66E30 29N00	A20	10	10.4				A	56	4	0000—2000	
14			BATAC ILOCOS N	PHL	120E37 18N12	C 9	1	0.6				A	71	3	2100—1600	
15			CEBU CITY	PHL	123E56 10N20	C 9	5	7.6				A	71	3	2100—1600	
16		S	BIALYSTOK	POL	23E13 53N11	C 9	60	19.9				A	108	4	0000—2400	
17		S	GDANSK	POL	18E35 54N14	C 9	60	19.9				A	108	3	0000—2400	
18		S	JELENIA GORA	POL	15E40 50N55	C 9	10	12.1				A	108	5	0000—2400	
19		S	LODZ	POL	19E32 51N36	C 9	60	19.9				A	108	4	0000—2400	
20		S	RACIBORZ	POL	18E02 50N11	C 9	10	12.1				A	108	4	0000—2400	
21		S	RZESZOW	POL	21E58 50N00	C 9	300	26.9				A	108	4	0000—2400	
22			DAKAR	SEN	17W16 14N45	C 9	50	19.1				A	126	4	0600—2400	
23			AM TIMAN	TCD	20E14 11N05	C 9	10	12.1				A			0400—2300	
24			TOGBLEKOPE	TGO	01E12 06N16	A20	10	10.6				A	81	4	0000—2400	
25			BANGKOK	THA	100E31 13N47	A20	10	10.4				A	50	2	0000—2400	
26			MASINDI	UGA	31E45 01N41	C 9	20	13.6				A	70	4	0300—2100	
27			ALEKSANDROVSKO	URS	43E00 44N20	A18	5	9.1				A	120	4	0000—2400	
28		S	BODAIBO	URS	114E18 57N51	A18	5	9.1				A	120	4	0000—2400	
29		S	KIRENSK	URS	108E06 57N47	A18	5	9.1				A	120	4	0000—2400	
30		S	TOMSK	URS	85E04 56N30	A18	150	23.9				A	120	4	0000—2400	
31		S	TSELINOGRAD	URS	71E23 51N12	C10	50	19.1				A	120	4	0000—2400	
32			SANTO 1	VUT	167E15 15S30	A20	20	13.4				A	50	1	0000—2400	
33			BOS KRUPA	YUG	16E09 44N54	D 9	1	0.6				A	50	4	0800—1500	7
34			CAKOVEC	YUG	16E27 46N23	D 9	1	0.6				A	50	4	0800—1500	7
35			HERCEG NOVI	YUG	18E30 42N27	D 9	1	0.4				A	32	4	0800—1500	7
36			VINKOVCI	YUG	18E49 45N15	D 9	1	2.1				A	105	4	0800—1500	7



1314 KHZ (88)

1	2		3	4		5	6	7	8	9	10	11	12	13	14	15
1	1314		LUBANGO	AGL	13E30	14S55	A20	1	0.4				A	60	3	0000—2400	
2	(88)		BALLARAT VIC	AUS	143E46	37S32	A20	5					B		3	0000—2400	
3			WOLLONGONG NSW	AUS	150E52	34S31	A20	5					B		3	0000—2400	
4			MALLNITZ	AUT	13E10	46N59	D 9	0.1	−10.0				A	15	6	0000—2400	
5			NAUDERS	AUT	10E31	46N54	D 9	0.1	−10.0				A	15	6	0000—2400	
6			OBDACH	AUT	14E42	47N04	D 9	0.1	−10.0				A	15	6	0000—2400	
7			RAURIS	AUT	13E00	47N14	D 9	0.1	−10.0				A	15	6	0000—2400	
8			SCHARNITZ	AUT	11E16	47N23	D 9	0.1	−10.0				A	15	6	0000—2400	
9			COXS BAZAR	BGD	92E00	21N27	A20	10	12.1				A	122	3	0000—1800	
10			PHNOM PENH	CBG	104E55	11N34	C10	1	0.4				A	57	3	0000—2400	
11			CHONGQING	CHN	106E30	29N45	A20	5	7.4				A	60	4	2000—1800	
12			ERENHOT	CHN	112E00	43N39	A20	100	22.1				A	120	4	2000—1800	
13			JINAN	CHN	116E57	36N43	A20	10	10.4				A	60	4	2000—1800	
14		S	JINHU	CHN	119E01	33N02	A20	10	10.4				A	60	3	2000—1800	
15		S	LIYANG	CHN	119E29	31N26	A20	10	10.4				A	60	3	2000—1800	
16		S	XUZHOU	CHN	117E20	34N14	A20	20	13.4				A	60	3	2000—1800	
17			YIWU	CHN	94E40	43N20	A20	100	22.1				A	120	4	2000—1800	
18		S	CABRA	E	04W22	37N29	D 9	2	3.4				A	60	4	0000—2400	
19		S	CADIZ	E	06W17	36N31	D 9	2	3.4				A	60	3	0000—2400	
20		S	MADRID	E	03W40	40N26	D 9	20	13.4				A	80	4	0000—2400	
21		S	MELILLA	E	02W55	35N15	D 9	2	3.4				A	40	4	0000—2400	
22		S	MONFORTE	E	07W31	42N29	D 9	2	3.4				A	40	5	0000—2400	
23		S	PALENCIA	E	04W32	41N58	D 9	2	3.4				A	40	4	0000—2400	
24		S	S SEBASTIAN	E	01W57	43N19	D 9	10	10.4				A	60	4	0000—2400	
25		S	SAMA LANGREO	E	05W41	43N17	D 9	2	3.4				A	40	5	0000—2400	
26		S	SORIA	E	02W27	41N45	D 9	2	3.4				A	40	5	0000—2400	
27		S	TARREGA	E	01E07	41N39	D 9	2	3.4				A	30	5	0000—2400	
28		S	VALENCIA	E	00W19	39N23	D 9	18	12.9				A	60	4	0000—2400	
29		S	EL MINYA	EGY	30E33	28N07	D 9	10	12.1				A	100	3	0000—2400	24
30		S	IDFU	EGY	32E49	25N00	D 9	10	12.1				A	100	3	0000—2400	24
31		S	SOHAG	EGY	31E43	26N27	D 9	10	12.1				A	100	3	0000—2400	24
32			LIBREVILLE	GAB	09E25	00N25	C 9	5	7.4				A		4	0400—2400	
33			TRIPOLIS	GRC	22E26	37N30	C 9	20	13.6				A	65	5	0400—2200	
34			DABOLA	GUI	11W09	10N46	C 9	50	17.4				A	57	4	0000—2400	
35		S	ANCONA	I	13E29	43N36	D 9	10	10.6				A	93	4	0000—2400	
36		S	CAMPOBASSO	I	14E39	41N34	D 9	1	0.0				A	29	5	0000—2400	46
37		S	CATANZARO	I	16E36	38N54	D 9	1	0.0				A	29	5	0000—2400	46
38		S	CIRO CROTONE	I	17E04	39N22	D 9	10	10.4				A	57	5	0000—2400	45
39		S	CORTINA	I	12E07	46N31	D 9	1	0.4				A	50	5	0000—2400	45
40		S	ISERNIA	I	14E14	41N36	D 9	1	0.4				A	50	5	0000—2400	45
41		S	LOCRI	I	16E14	38N13	D 9	10	10.4				A	57	5	0000—2400	45
42		S	MATERA	I	16E37	40N39	D 9	1	0.0				A	29	5	0000—2400	46
43		S	PISA	I	10E25	43N38	D 9	50	20.4				A	135	3	0000—2400	45
44			AJMER	IND	74E42	26N17	A20	20	15.1				A	115	4	0300—0900	25
45			BHUJ 1	IND	69E43	23N15	A20	20	15.1				A	115	3	0300—0900	25
46			BHUJ 2	IND	69E43	23N15	A20	10	12.1				A	115	3	0900—0300	
47			CHANDIGARH	IND	76E54	30N42	A20	20	15.1				A	115	3	0300—0900	25
48			CUTTACK 1	IND	85E55	20N35	A20	20	15.1				A	115	3	0300—0900	25
49			CUTTACK 2	IND	85E55	20N35	A20	10	12.1				A	115	3	0900—0300	
50			JALGAON	IND	75E31	20N55	A20	20	15.1				A	115	3	0300—0900	25
51			SHILLONG	IND	91E56	25N34	A20	20	15.1				A	115	3	0300—0900	25
52			TINNEVELLY	IND	77E44	08N44	A20	20	15.1				A	115	3	0300—1000	25
53			ARDEBIL	IRN	48E20	38N28	A20	20	13.4				A	56	3	0200—2100	
54			SANANDAJ	IRN	47E00	35N20	A20	10	10.4				A	55	3	0300—1400	

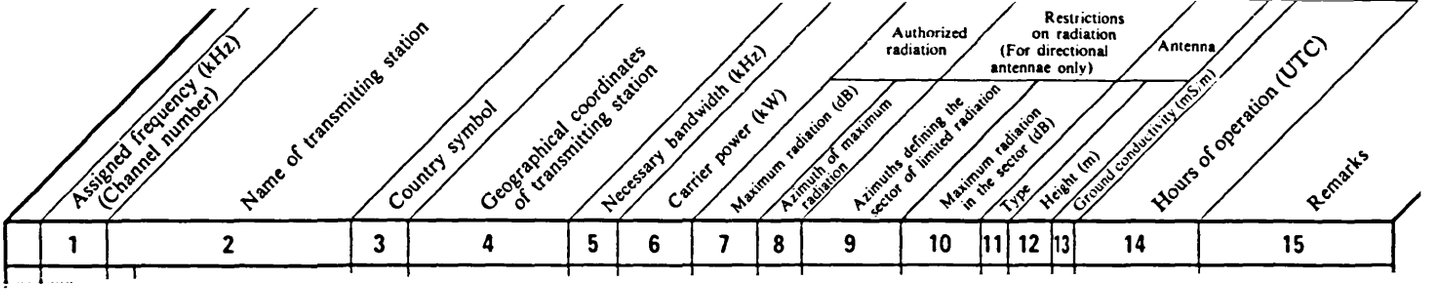


	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1314		OSAKA	J	135E32 34N33	A15	50	19.1				A	120	4	0000—2400	
2	(88)		GARISSA	KEN	39E40 00S25	C 9	10	13.4				A	130	4	0000—2400	
3			IRI	KOR	126E54 35N55	C10	10	12.1				A	120	4	0000—2400	
4			HONGWON	KRE	127E57 40N03	A16	10	10.4				A	50		2000—1800	
5			MERSING	MLA	103E51 02N25	A20	20	15.1				A	100	5	2200—1700	
6			BUKURU	NIG	08E51 09N46	C 9	10	10.4				A	47	4	0500—2300	
7			STAVANGER CITY	NOR	05E42 58N56	D 9	100	22.0				A	116	4	0000—2400	42/STAVAN KVIT
8			STAVANGER KVIT	NOR	05E26 59N04	D 9	1200	33.8				A	140	3	0000—2400	41/STAVAN CITY
9		S	GISBORNE	NZL	178E04 38S42	A20	2	3.4				A	50	5	0000—2400	
10		S	TAUPO	NZL	176E04 38S40	A20	5	7.4				A	50	7	0000—2400	
11		S	BAGUIO CITY	PHL	120E36 16N24	C10	0.1	−9.6				A	30	3	0100—2400	
12			BAMBANG BULACA	PHL	120E52 14N46	C 9	10	10.6				A	71	3	0000—2400	
13			JOLO SULU	PHL	121E00 06N03	C 9	1	0.6				A	71	3	2100—1600	
14		S	OLONGAPO	PHL	120E42 14N24	C10	0.3	−5.2				A	15	3	0100—2400	
15		S	PORO POINT	PHL	120E25 16N35	C10	0.1	−10.0				A	12	3	0100—2400	
16		S	AMBUNTI	PNG	142E50 04S31	D10	2	3.4				A	30	3	1900—1300	
17		S	MAPRIK	PNG	143E03 03S38	D10	2	3.4				A	30	3	1900—1300	
18		S	WEWAK	PNG	143E38 03S35	D10	10	10.6				A	80	5	1900—1300	
19		S	CONSTANTZA	ROU	28E38 44N10	C 9	50	19.1				A	115	6	0000—2400	
20		S	CRAIOVA	ROU	23E49 44N20	C 9	15	12.2				A	55	6	0000—2400	
21		S	TIMISOARA	ROU	21E14 45N45	C 9	50	19.1				A	115	4	0000—2400	
22			ALEPPO	SYR	37E08 36N14	C 9	10	10.4				A	33	3	0700—2200	
23			KHON KAEN	THA	102E49 16N26	A20	20	13.4				A	56	3	0000—2400	
24			SADIYAT	UAE	54E27 24N34	C 9	750	29.0	256	90—120	25.0	B		5	0200—2200	24
25			SADIYAT	UAE	54E27 24N34	C 9	750	29.0		190—220	25.0	B				
26			SADIYAT	UAE	54E27 24N34	C 9	750	29.0		300— 10	24.0	B				
27			LIRA	UGA	32E54 02N15	C 9	10	10.4				A	50	4	0300—2100	
28			STAVROPOL	URS	42E01 45N06	C10	500	35.0	10	130—150	7.0	B		4	0000—2400	
29		S	OHRID 2	YUG	20E47 41N08	D 9	10	10.4				A	60	4	0000—2400	
30		S	SKOPJE 2	YUG	21E33 41N59	D 9	100	23.0	170	310— 30	5.0	B		4	0000—2400	
31			MPIKA	ZMB	31E25 11S50	A20	10	12.1				A	115	4	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1323		SHKODER	ALB	19E30 42N06	A20	15	13.9				A	113	5	0500—2200	
2	(89)		CONSTANTINE	ALG	06E38 36N23	D 9	40	16.4				A	50	4	0600—1800	
3			CONSTANTINE	ALG	06E38 36N23	D 9	20	13.4				A	50	4	1800—2400	
4			DIRIYAH	ARS	46E37 24N39	C 9	20	15.1				A	120	4	0000—2400	
5			ADELAIDE SA	AUS	138E35 34S50	A20	5	7.6				A	84	2	0000—2400	
6			GOSFORD NSW	AUS	151E22 33S22	A20	5					B		3	0000—2400	
7			BIMBEREKE	BEN	02E39 10N14	C10	10	10.4				A	57	4	0500—2400	
8			CHANGCHUN	CHN	125E24 43N48	A20	100	22.1				A	120	4	2000—1800	
9		S	CHEN XIAN	CHN	113E02 25N48	A20	50	17.4				A	60	4	2000—1800	
10		S	JISHOU	CHN	109E43 28N19	A20	40	16.4				A	60	4	2000—1800	
11		S	LENGSHUIJIANG	CHN	111E23 27N44	A20	20	13.4				A	60	4	2000—1800	
12			LHASA	CHN	90E59 29N30	A20	100	22.0	330	180—240	17.0	B		5	2000—1800	
13		S	WUGANG	CHN	110E38 26N43	A20	50	17.4				A	60	4	2000—1800	
14		S	YIYANG SHI	CHN	112E21 28N36	A20	10	10.4				A	60	4	2000—1800	
15		S	YUEYANG	CHN	113E10 29N17	A20	20	13.4				A	60	4	2000—1800	
16			JACOB	COG	13E16 04S11	A20	30	15.4				A	91	5	0000—2400	
17			ZYYI	CYP	33E19 34N43	A20	200	26.0	150			B		4	0000—2400	
18			NAUEN	DDR	12E55 52N39	D 9	1000	34.0				B		4	0400—1800	
19			NAUEN	DDR	12E55 52N39	D 9	150	21.0				B		4	1800—0400	
20			RAKIRAKI	FJI	178E09 17S22	A20	2.5	4.4				A	30	5	1700—1200	
21			BRIGHTON	G	00W15 50N50	A20	0.5	−2.3				A	82	4	0000—2400	
22			BOMBAY	IND	72E54 18N53	A20	20	15.1				A	115	3	0300—1000	25
23			CALCUTTA	IND	88E23 22N36	A20	20	15.1				A	115	3	0000—2400	
24			CHINDWARA	IND	78E55 22N05	A20	20	15.1				A	115	4	0300—0900	25
25			GORAKHPUR	IND	83E28 26N52	A20	20	15.1				A	115	3	0300—0900	25
26			GULBARGA	IND	76E54 17N19	A20	20	15.1				A	115	3	0300—1000	25
27			KOZHIKODE	IND	75E50 11N15	A20	20	15.1				A	115	4	0300—1000	25
28			PT BLAIR	IND	92E43 11N41	A20	20	16.4				A	150	4	0300—1000	25
29			MALANG	INS	112E45 07S59	A18	2	3.4				A	57	4	2200—1700	
30			DUNDALK	IRL	06W25 54N01	A20	2	3.4				A	50	4	0000—2400	
31			JOLFA SEVVOM	IRN	45E38 38N57	A20	20	13.4				A	51	3	0200—2100	23/URS
32			FUKUSHIMA	J	140E29 37N46	A15	5	7.6				A	67	5	0000—2400	
33			GOZU	J	132E14 35N01	A15	0.1	−9.6				A	50	5	0000—2400	
34			IMARI	J	129E53 33N16	A15	0.1	−9.6				A	50	5	0000—2400	
35			OCHIAI	J	133E45 35N01	A15	0.1	−9.6				A	50	5	0000—2400	
36			SHIOZAWA	J	138E51 37N02	A15	0.1	−9.6				A	50	5	0000—2400	
37			SO SA	KOR	126E45 37N27	C10	1	0.4				A	33	4	0000—2400	
38			ULNEUNGDO	KOR	130E54 37N29	C10	1	0.4				A	30	6	0000—2400	
39			YUNGKWANG	KOR	126E30 35N16	C10	1	0.6				A	80	4	0000—2400	
40			TAECHON	KRE	125E30 39N55	A16	5	7.4				A	30		2000—1800	
41			TANANARIVE	MDG	47E31 18S54	C 9	5	9.1				A	113	4	0300—2000	
42			BINTULU	MLA	113E01 03N11	A20	20	15.1				A	100	5	0000—2400	
43			SAFI	MRC	09W10 32N20	A18	5	7.6				A	82	4	0600—2400	
44			NAURU ISLAND	NRU	166E56 00S33	C 9	0.2	−6.6				A	40		2000—1200	
45			CHRISTCHURCH	NZL	172E35 43S34	A20	5	7.4				A	50	4	0000—2400	
46			ILOILO CITY	PHL	122E33 10N42	C 9	5	7.6				A	70	3	2100—1600	
47		S	HATEG	ROU	22E57 45N37	C 9	1	0.4				A	55	5	0300—2300	
48		S	NEHOIU	ROU	26E20 45N20	C 9	1	0.4				A	55	5	0300—2300	
49		S	SULINA	ROU	29E31 45N10	A20	2	5.1				A	110	3	0300—2300	
50		S	TARGU MURES	ROU	24E35 46N37	C 9	15	12.2				A	55	5	0000—2400	
51			LINGUERE	SEN	15W07 15N24	C 9	10	10.4				A	45	4	0600—2400	
52			SAME	TGK	37E45 04S40	C 9	20	15.1				A	113	4	0300—2100	

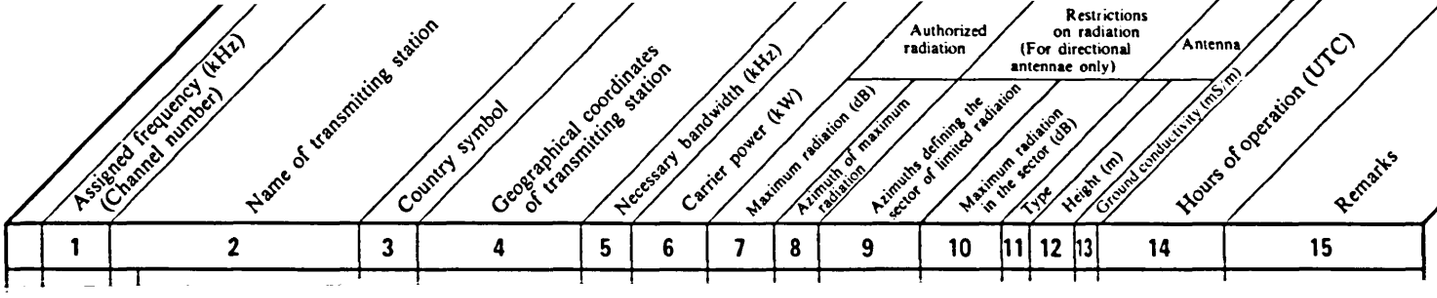
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1323	S	CHIANG MAI	THA	98E58	18N47	A20	10	10.4				A	57	5	0000—2400	
2	(89)	S	CHON BURI	THA	100E56	12N38	A20	1	0.0				A	24	2	0000—2400	
3		S	NAKHON PATHOM	THA	99E55	14N06	A20	1	0.4				A	48	2	0000—2400	
4		S	SONGKHLA	THA	100E37	07N11	A20	5	7.4				A	57	3	0000—2400	
5			MBARARA	UGA	30E37	00S36	C 9	10	10.4				A	60	4	0300—2100	
6		S	BUKHARA	URS	64E30	39N40	A18	100	22.1				A	120	4	0000—2400	
7		S	GURIEV	URS	51E55	47N03	A18	100	22.1				A	120	4	0000—2400	
8		S	KANDALAKCHA	URS	32E06	67N08	A16	100	22.1				A	120	4	0000—2400	
9		S	KHOROG	URS	71E32	37N18	A18	50	19.1				A	120	4	0000—2400	
10		S	NEBIT DAG	URS	54E05	39N20	A18	100	22.1				A	120	4	0000—2400	
11		S	TSKHINVALI	URS	44E00	42N18	A16	30	16.9				A	120	4	0000—2400	23/IRN
12			BITOLA 2	YUG	21E22	41N03	D 9	10	10.4				A	60	4	0000—2400	
13			DELCEVO	YUG	22E47	41N58	D 9	10	10.4				A	60	5	0000—2400	
14			GLINA	YUG	16E05	45N20	D 9	1	0.4				A	50	4	0800—1500	7
15			GOSTIVAR	YUG	20E55	41N48	D 9	2	3.4				A	60	4	0000—2400	
16			SID	YUG	19E15	45N05	D 9	1	0.4				A	60	2	0000—2400	



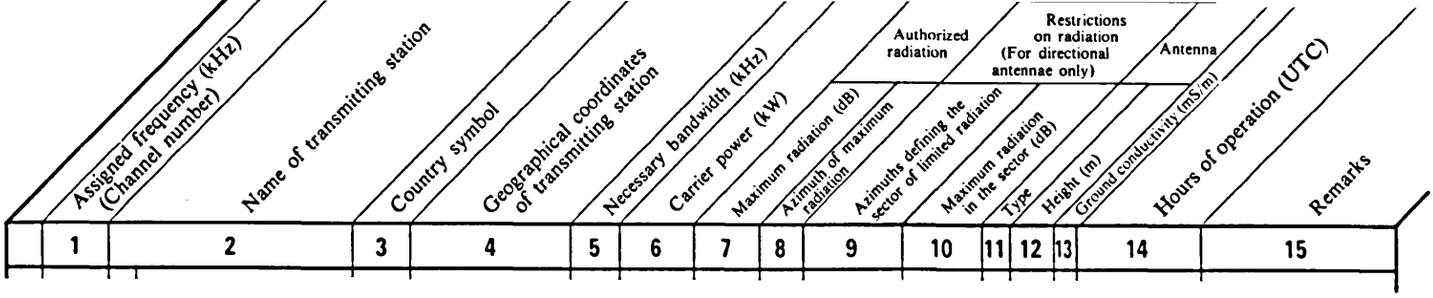
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1332		GIZAN	ARS	42E31 16N52	C 9	20	15.1				A	120	3	0400—1400	
2	(90)		BUNDABERG QLD	AUS	152E24 24S51	A20	5					B		4	1900—1400	
3			SWAN HILL VIC	AUS	143E34 35S25	A20	5	7.4				A	57	2	1900—1400	
4		S	BIYANG	CHN	113E18 32N43	A20	10	10.4				A	60	4	2000—1800	
5			FUZHOU 1	CHN	119E24 26N06	A20	10	10.4				A	60	4	2000—1800	
6		S	LUOYANG	CHN	112E24 34N42	A20	50	17.4				A	60	4	2000—1800	
7		S	PINGDINGSHAN	CHN	113E17 33N42	A20	20	13.4				A	60	4	2000—1800	
8		S	PINGYU	CHN	114E38 32N58	A20	10	10.4				A	60	4	2000—1800	
9		S	SHANGSHUI	CHN	114E38 33N38	A20	10	10.4				A	60	4	2000—1800	
10		S	XINXIANG SHI	CHN	113E52 35N18	A20	10	10.4				A	60	4	2000—1800	
11		S	XIXIA	CHN	111E26 33N24	A20	10	10.4				A	60	4	2000—1800	
12			MINDELO	CPV	24W59 16N53	A18	10	10.4				A	40	6	1900—2400	
13			DALOA	CTI	06W29 06N30	C 9	10	12.1				A		7	0600—2400	
14			MENDI	ETH	35E05 09N47	C 9	30	16.9				A	112	3	0400—2300	
15			PETERBOROUGH	G	01W14 52N37	A20	1	1.0				A	85	3	0000—2400	
16			MAKOKOU	GAB	12E50 00N34	C 9	20	15.1				A		5	0400—2400	
17			UTRECHT	HOL	05E08 52N05	D 9	2	3.4				A	40	4	0000—2400	
18		S	CATANIA	I	15E05 37N32	D 9	5	9.1				A	103	5	0000—2400	
19		S	ROMA	I	12E35 41N42	D 9	300	30.8	333			B		4	0000—2400	
20		S	SQUINZANO	I	18E00 40N27	D 9	100	24.5	299	75—110	19.5	B		4	0000—2400	
21			HISSAR	IND	75E48 29N00	A20	20	15.1				A	115	4	0300—0900	25
22			MERCARA 1	IND	75E42 12N24	A20	20	15.1				A	115	4	0300—1000	25
23			MERCARA 2	IND	75E42 12N24	A20	10	12.1				A	115	4	1000—0300	
24			REWA	IND	81E25 24N31	A20	20	15.1				A	115	4	0300—0900	25
25			SAMBALPUR	IND	84E01 21N28	A20	20	15.1				A	115	3	0300—0900	25
26			SILIGURI	IND	88E30 26N42	A20	20	15.1				A	115	4	0300—0900	25
27			TEZU 1	IND	96E15 27N50	A20	20	15.1				A	115	4	0300—0900	25
28			TEZU 2	IND	96E15 27N50	A20	10	12.1				A	115	4	0900—0300	
29			UDAIPUR	IND	73E47 24N30	A20	20	15.1				A	115	4	0300—0900	25
30			DJAKARTA	INS	106E45 06S23	A18	10	10.4				A	56	5	2200—1700	
31			TEHERAN	IRN	51E27 35N41	A20	100	22.1				A	113	3	0000—2400	
32			NAGOYA	J	136E48 35N10	A15	50	19.1				A	109	4	0000—2400	
33			ALKHARUBA	JOR	35E30 32N10	A20	20	15.1				A	110	5	0300—2300	
34			CHUNG JU	KOR	127E54 36N58	C10	10	12.1				A	120	6	0000—2400	
35			HWAPYONG	KRE	126E55 41N14	A16	1	0.4				A	30		2000—1800	
36			BIR MOGHREIN	MTN	11W36 25N13	B20	1	0.4				A	57		0600—2400	
37			MAINE SOROA	NGR	12E00 13N10	C 9	20	16.0	0			B		4	0000—2400	
38			AUCKLAND	NZL	174E38 36S51	A20	10	12.1				A	120	3	0000—2400	
39			MIR PUR KHAS	PAK	69E00 25N20	A20	10	10.4				A	58	4	0000—2000	
40			CABANATUAN NE	PHL	120E57 15N28	C 9	5	7.6				A	70	3	2100—1600	
41			IRIGA CAM SUR	PHL	123E25 13N25	C 9	1	0.6				A	70	3	2100—1600	
42			TAGBILARAN BHL	PHL	123E50 09N39	C 9	1	0.6				A	70	3	2100—1600	
43			BARWICE	POL	16E20 53N44	A20	1	0.4				A	56	5	0000—2400	
44			MEDYKA	POL	22E56 49N49	A20	1	0.4				A	56	5	0000—2400	
45			OPOCZNO	POL	20E17 51N23	A20	1	0.4				A	56	5	0000—2400	
46			PINCZOW	POL	20E32 50N32	A20	1	0.4				A	56	5	0000—2400	
47			STALOWA WOLA	POL	22E02 50N35	A20	1	0.4				A	56	5	0000—2400	
48			USTRONIE MORSK	POL	15E40 54N11	A20	1	0.4				A	56	5	0000—2400	
49			ZWOLEN	POL	21E35 51N21	A20	1	0.4				A	56	5	0000—2400	
50			ELVAS	POR	07W07 38N53	A20	1	0.4				A	60	5	0000—2400	
51		S	ALEXANDRIA	ROU	25E17 43N58	C 9	1	0.4				A	55	2	0300—2300	
52		S	BABADAG	ROU	28E45 44N54	C 9	1	0.4				A	55	3	0300—2300	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1332	S	FAGARAS	ROU	24E57 45N52	A20	2	3.2				A	55	5	0300—2300	
2	(90)	S	GALATZI	ROU	27E54 45N25	A20	15	13.9				A	100	4	0500—1900	
3		S	SAVENI	ROU	26E49 47N55	A20	2	5.1				A	95	4	0300—2300	
4		S	TOPLITA	ROU	25E19 46N55	C 9	1	0.4				A	55	5	0300—2300	
5		S	BRNO MESTO	TCH	16E38 49N11	A20	25	14.4				A	50	5	0400—1700	7
6		S	JIHLAVA	TCH	15E35 49N23	A20	14	11.9				A	50	5	0400—1700	7
7		S	JIHLAVA	TCH	15E35 49N23	C 9	3	4.8				A	50	5	1700—0400	
8			JINDR HRADEC	TCH	15E00 49N09	A20	1	0.4				A	60	5	0000—2400	
9			SVITAVY	TCH	16E28 50N36	A20	1	0.4				A	60	5	0000—2400	
10			TURNOV	TCH	15E10 50N35	A20	1	0.4				A	60	5	0000—2400	
11			BANGKOK	THA	100E37 13N46	A20	10	10.4				A	52	2	0000—2400	
12			AKCAABAT	TUR	39E42 41N00	D 9	10	10.4				A	43	4	0200—2300	
13		S	KOKHTLA IARVE	URS	27E10 59N20	A16	15	13.9				A	120	4	0000—2400	
14		S	PIARNU	URS	24E33 58N23	A16	30	16.9				A	120	4	0000—2400	
15			TACHKENT	URS	69E15 41N19	C10	30	16.9				A	120	4	0000—2400	
16		S	UYRU	URS	27E02 57N49	A16	30	16.9				A	120	4	0000—2400	
17			IVANEC	YUG	16E07 46N13	D 9	0.1	−9.6				A	25	4	0800—1500	7
18			ODZAK	YUG	18E21 45N01	D 9	0.1	−9.6				A	25	3	0800—1500	7
19			MARHUBI	ZAN	39E12 06S08	C 9	5	7.6				A	83	4	0300—2100	



1341 KHZ (91)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1341	POGRADEC	ALB	20E39 40N54	A20	1	0.4				A	56	5	0400—2300	
2	(91)	GEELONG VIC	AUS	144E20 38S12	A20	5					B		2	1900—1400	
3		NEWCASTLE NSW	AUS	151E41 32S54	A20	5					B		4	0000—2400	
4		KHULNA	BGD	89E37 22N48	A20	10	10.6				A	70	3	0000—1800	
5		KAGABANDORO	CAF	19E11 06N59	C 9	10	10.6				A	91	5	0400—2300	
6		PHNOM PENH	CBG	104E55 11N34	C10	1	0.4				A	57	3	0000—2400	
7	S	ANDA SHI	CHN	125E20 46N30	A20	50	17.4				A	60	4	2000—1800	
8	S	DONGFANG	CHN	108E36 19N06	A20	10	10.4				A	60	4	2000—1800	
9	S	ENPING	CHN	112E18 22N11	A20	40	16.4				A	60	4	2000—1800	
10	S	FUYUAN	CHN	134E15 48N17	A20	50	17.4				A	60	4	2000—1800	
11	S	GUANGZHOU	CHN	113E14 23N11	A20	100	22.1				A	120	4	2000—1800	
12	S	HULIN	CHN	132E58 45N45	A20	50	17.4				A	60	4	2000—1800	
13	S	HUZHONG	CHN	123E32 52N05	A20	50	17.4				A	60	4	2000—1800	
14	S	LIAN XIAN	CHN	112E23 24N47	A20	50	17.4				A	60	4	2000—1800	
15	S	LONGCHUAN	CHN	115E11 24N04	A20	20	13.4				A	60	4	2000—1800	
16	S	MULAN	CHN	128E02 45N57	A20	10	10.4				A	60	4	2000—1800	
17	S	NENJIANG	CHN	125E02 49N05	A20	50	17.4				A	60	4	2000—1800	
18	S	QIONGHAI	CHN	110E26 19N15	A20	10	10.4				A	60	4	2000—1800	
19	S	SHANTOU	CHN	116E36 23N30	A20	50	17.4				A	60	4	2000—1800	
20	S	YICHUN 2	CHN	128E45 47N40	A20	100	20.0	320	90—190	14.0	B		4	2000—1800	
21		S CRUZ TENERIF	CNR	16W15 28N30	D 9	20	13.4				A	60	5	0000—2400	
22		BAWITI	EGY	28E50 28N22	D 9	20	15.1				A	100	4	0000—2400	
23		SIGATOKA	FJI	177E31 18S09	A20	2.5	4.4				A	30	3	1700—1200	
24	S	LISNAGARVEY	G	06W04 54N30	A20	250	26.1				A	110	4	0000—2400	
25	S	LONDONDERRY	G	07W22 55N00	A20	5	7.4				A	30	5	0000—2400	
26		SWINDON	G	01W48 51N32	A20	1	0.0				A	18	3	0000—2400	
27		FARANAH	GUI	10W45 10N02	C 9	100	20.4				A	56	4	0000—2400	
28		LAKIHEGY	HNG	19E00 47N22	D18	300	26.9				A	117	3	0000—2400	
29	S	OUAGADOUGOU	HVO	01W31 12N22	A20	2	3.4				A	40	4	0000—2400	
30	S	OUAHIGOUYA	HVO	02W25 13N34	A20	100	22.1				A	112	4	0000—2400	
31		JAISALMER	IND	70E57 26N55	A20	20	15.1				A	115	4	0300—0900	25
32		KOHIMA 1	IND	94E03 25N43	A20	20	15.1				A	115	4	0300—0900	25
33		KOHIMA 2	IND	94E03 25N43	A20	10	12.0	5	215—265	4.0	B		4	0900—0300	
34		RAMPUR	IND	79E04 28N48	A20	20	15.1				A	115	3	0300—0900	25
35		SURAT 1	IND	72E52 21N12	A20	20	15.1				A	115	3	0300—0900	25
36		SURAT 2	IND	72E52 21N12	A20	10	13.0	160	300— 20	0.0	B		3	0900—0300	
37		TIRUCHIRAPALLI	IND	78E46 10N50	A20	20	15.1				A	115	3	0300—1000	25
38		VIZAGAPATAM	IND	83E20 17N42	A20	20	15.1				A	115	4	0300—1000	25
39		TANDJUNGPINANG	INS	104E28 00N55	A18	5	7.4				A	56	5	2200—1700	
40		BAM	IRN	58E22 29N08	A20	1	0.4				A	56	3	0100—2200	
41		HAGIWARA	J	137E14 35N49	A15	0.1	−9.4				A	71	5	0000—2400	
42		HANAWA	J	140E48 40N13	A15	0.1	−9.4				A	71	5	0000—2400	
43		HIRADO	J	129E33 33N22	A15	0.1	−9.6				A	50	5	0000—2400	
44		INA	J	137E57 35N50	A15	0.1	−9.4				A	71	5	0000—2400	
45		IWAKI	J	140E53 37N03	A15	1	0.6				A	67	5	0000—2400	
46		JOHEN	J	132E35 32N58	A15	0.1	−9.6				A	47	5	0000—2400	
47		KAMIOKA	J	137E18 36N20	A15	0.1	−9.4				A	71	5	0000—2400	
48		KUJI AOMORI	J	141E48 40N11	A15	0.1	−9.4				A	71	5	0000—2400	
49		MAIZURU	J	135E24 35N28	A15	0.1	−9.4				A	67	5	0000—2400	
50		MASUDA	J	131E51 34N41	A15	0.1	−9.6				A	47	5	0000—2400	
51		NAKASHIBETSU	J	144E59 43N32	A15	0.1	−9.4				A	67	5	0000—2400	
52		NICHINAN	J	131E23 31N36	A15	0.1	−9.4				A	67	5	0000—2400	
53		NIIMI	J	133E28 34N58	A15	0.1	−9.4				A	67	5	0000—2400	
54		SAKUMA	J	137E49 35N05	A15	0.1	−9.6				A		5	0000—2400	



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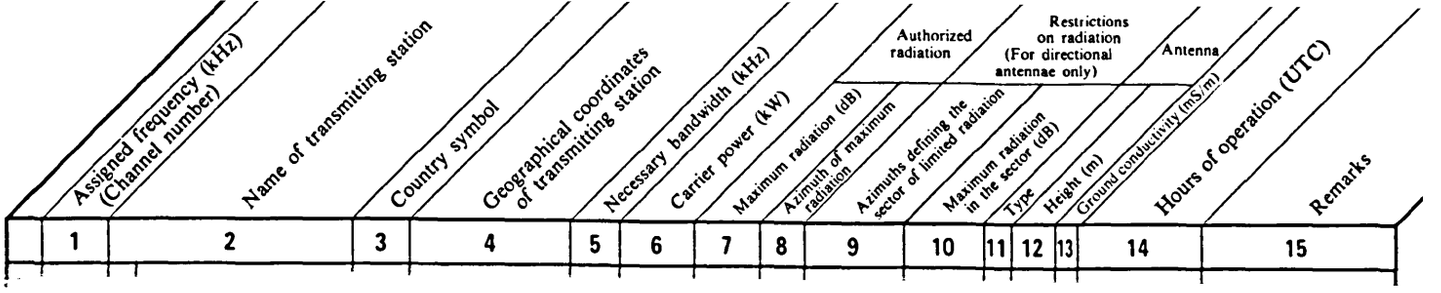
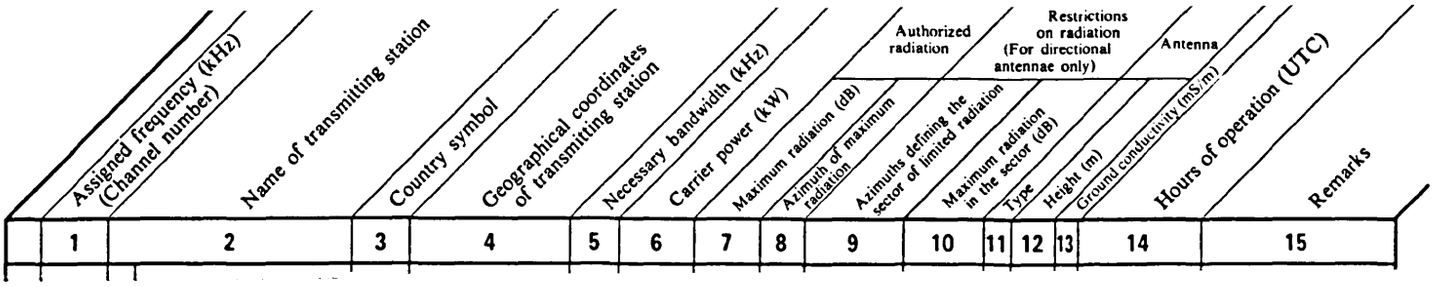
1	1341		SHINJO YAMAGAT	J	140E19 38N47	A15	0.1	−9.6				A	47	5	0000−2400	
2	(91)		TAJIMA	J	139E46 37N12	A15	0.1	−9.4				A	71	5	0000−2400	
3			TOKUNOSHIMA	J	129E01 27N45	A15	0.1	−9.4				A	72	5	0000−2400	
4			TONO	J	141E33 39N20	A15	0.1	−9.4				A	71	5	0000−2400	
5			UEDA	J	138E16 36N24	A15	0.1	−9.4				A	67	5	0000−2400	
6			URAKAWA	J	142E47 42N10	A15	0.1	−9.4				A	71	5	0000−2400	
7			YOKOTE AKITA	J	140E34 39N18	A15	0.1	−9.4				A	67	5	0000−2400	
8			KIMPO	KOR	126E38 37N42	C10	10	10.6				A	80	4	0000−2400	
9			PURYONG	KRE	129E41 42N03	A16	1	0.0				A	50	6	2000−1800	
10			MAGWA	KWT	48E02 29N10	A20	200	26.0	275	350−200	21.0	B		8	0000−2400	
11			TANANARIVE	MDG	47E31 18S54	C 9	1	2.1				A	102	4	0300−2000	
12			DELIMARA	MLT	14E33 35N49	D 9	20	15.1				A	120	4	0000−2400	
13			BULAGAN	MNG	103E20 48N50	A18	5	9.1				A	120	5	2200−1500	
14			NELSON	NZL	173E13 41S20	A20	2	3.4				A	50	5	0000−2400	
15			BAHAWALPUR	PAK	71E47 29N25	A20	10	12.1				A	121	3	0000−2000	
16			ROXAS CITY	PHL	123E44 11N35	C 9	1	0.6				A	69	3	2100−1600	
17			HARGEISA	SOM	44E03 09N33	A16	25	14.4				A	62	5	0300−2000	
18			DAMAS 3	SYR	36E22 33N30	A20	20	15.1				A	100	5	0400−1500	
19			LAI	TCD	16E18 09N24	C 9	1	0.4				A			0400−2300	
20			SHINYANGA	TGK	33E00 03S40	C 9	20	15.1				A	110	4	0300−2100	
21		S	LOEY	THA	101E43 17N28	A20	10	10.6				A	64	3	0000−2400	
22			PHANGNGA	THA	98E32 08N27	A20	10	10.4				A	56	3	0000−2400	
23		S	UBON	THA	104E50 15N15	A20	50	17.6				A	67	4	0000−2400	
24			ALMA ATA	URS	77E00 43N17	A16	30	16.9				A	120	4	0000−2400	
25			FT CHEVTCHENKO	URS	50E18 44N30	A16	25	14.0				A	190	4	0000−2400	
26			PIROT	YUG	22E33 43N08	D 9	10	10.4				A	60	4	0800−1500	
27			KENGE	ZAI	16E55 04S50	C 9	1	0.4				A	60	8	0000−2400	
28			KABWE	ZMB	28E30 14S22	A20	2	6.4				A	142	4	0200−2100	



1350 KHZ (92)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1350		CABINDA	AGL	12E12 05S35	C10	1	0.4				A	56	3	0600—2200	
2	(92)		TAIF	ARS	40E15 21N15	C 9	20	15.1				A	120	4	0400—1400	24
3			BLACKTOWN NSW	AUS	151E00 33S00	A20	5	7.4				A		3	0000—2400	
4			KARRATHA WA	AUS	117E00 20S43	A20	5	7.4				A		3	2100—1600	
5			KAYOGORO	BDI	29E30 04S14	C 9	1	0.4				A	55	4	0300—2400	
6		S	GANZHOU	CHN	114E54 25N48	A20	50	17.4				A	60	4	2000—1800	
7		S	GUANGCHANG	CHN	116E16 26N52	A20	10	10.4				A	60	4	2000—1800	
8			KUNMING	CHN	102E50 25N10	A20	10	10.4				A	60	5	2000—1800	
9			LIANYUNGANG	CHN	119E10 34N36	A20	5	7.4				A	60	3	2000—1800	
10		S	NANCHANG SHI	CHN	115E54 28N42	A20	100	22.1				A	120	4	2000—1800	
11		S	PINGXIANG 1	CHN	113E52 27N37	A20	20	13.4				A	60	4	2000—1800	
12			ABONG MBANG	CME	13E09 04N00	C 9	20	15.1				A	111	5	0500—2300	
13			MAYAMA	COG	15E15 04S16	A20	5	7.4				A	56	5	0000—2400	
14			QUSEIR	EGY	34E16 26N07	D 9	20	15.1				A	100	3	0000—2400	24
15		S	NANCY	F	06E14 48N53	D 9	100	22.1				A	115	3	0000—2400	
16		S	NICE	F	07E10 43N40	D 9	600	34.0	300	220—230	25.0	B		5	0000—2400	
17		S	NICE	F	07E10 43N40	D 9	600	34.0		80—100	20.0	B				
18			LARISSA	GRC	22E24 39N38	C 9	20	13.4				A	55	4	0400—2200	
19			GYOER	HNG	17E38 47N41	D18	5	7.4				A	60	3	0000—2400	
20			SZOLNOK	HNG	20E12 47N11	D18	5	7.4				A	86	3	0000—2400	
21			AMBIKAPUR	IND	83E04 23N10	A20	20	15.1				A	115	4	0300—0900	25
22			DHARWAR 1	IND	74E59 15N27	A20	20	15.1				A	115	3	0300—1000	25
23			DHARWAR 2	IND	74E59 15N27	A20	10	12.1				A	115	3	1000—0300	
24			GOALPARA	IND	90E40 26N13	A20	20	15.1				A	115	3	0300—0900	25
25			INDORE	IND	75E50 22N44	A20	20	15.1				A	115	3	0300—0900	25
26			JULLUNDUR 1	IND	75E18 31N19	A20	20	15.1				A	115	3	0300—0900	25
27			JULLUNDUR 2	IND	75E18 31N19	A20	10	12.1				A	115	3	0900—0300	
28			KAVARATHY I	IND	72E42 10N36	A20	20	15.1				A	115	4	0300—1000	25
29			LUCKNOW	IND	80E52 26N45	A20	20	15.1				A	115	3	0300—0900	25
30			POONA	IND	73E55 18N31	A20	20	15.1				A	115	3	0300—1000	25
31			BANDAR ABBAS	IRN	56E17 27N10	C 9	10	10.0				A	55	2	0230—1500	
32			BANDAR ABBAS	IRN	56E17 27N10	C 9	5	7.0				A	55	2	1500—2400	
33			HIROSHIMA	J	132E20 34N21	A15	20	15.1				A	122	4	0000—2400	
34			MARSABIT	KEN	38E00 02N20	C 9	5	9.1				A	100	4	0000—2400	
35			SAMCHEOG	KOR	129E07 37N27	C10	1	2.1				A	120		0000—2400	
36			KOSONG	KRE	128E10 38N46	A16	2	3.4				A	30		2000—1800	
37			FIANARANTSOA	MDG	47E05 21S27	C 9	20	16.4				A	141	4	0300—2000	
38			TANANARIVE	MDG	47E31 18S56	C 9	20	15.1				A	111	4	0300—2000	
39		S	DALANTSZADAGAD	MNG	104E30 43N38	A18	150	21.8				A	257	4	0800—1500	
40		S	MUREN	MNG	100E10 49N28	A18	150	21.8				A	257	5	0800—1500	
41		S	TCHOIBOLSAN	MNG	114E30 48N05	A18	75	18.8				A	257	4	0800—1500	
42			SAIPAN	MRA	145E43 15N12	C10	0.5	—2.4				A	64	2	2000—1400	
43			NOUAKCHOTT	MTN	16W00 18N08	B20	50	19.1				A	118		0600—2400	24
44			ROTORUA	NZL	176E14 38S10	A20	2	3.4				A	50	5	0000—2400	
45			DAVAO CITY	PHL	125E35 07N04	C 9	5	7.6				A	69	3	2100—1600	
46			MARAWI CITY	PHL	124E17 08N01	C 9	1	0.6				A	69	3	2100—1600	
47			QUEZON CITY	PHL	122E10 14N01	C 9	10	10.6				A	69	3	2100—1600	
48			SANTI ISABELA	PHL	121E33 16N41	C 9	5	7.6				A	69	3	2100—1600	
49		S	FINSCHHAFEN	PNG	147E51 06S34	D10	2	3.4				A	30	5	1900—1300	
50		S	LAE	PNG	147E00 06S44	D10	10	10.6				A	80	3	1900—1300	
51		S	MUMENG	PNG	146E35 06S30	D10	2	3.4				A	30	5	1900—1300	
52		S	WAU	PNG	146E33 07S20	D10	2	3.4				A	30	5	1900—1300	



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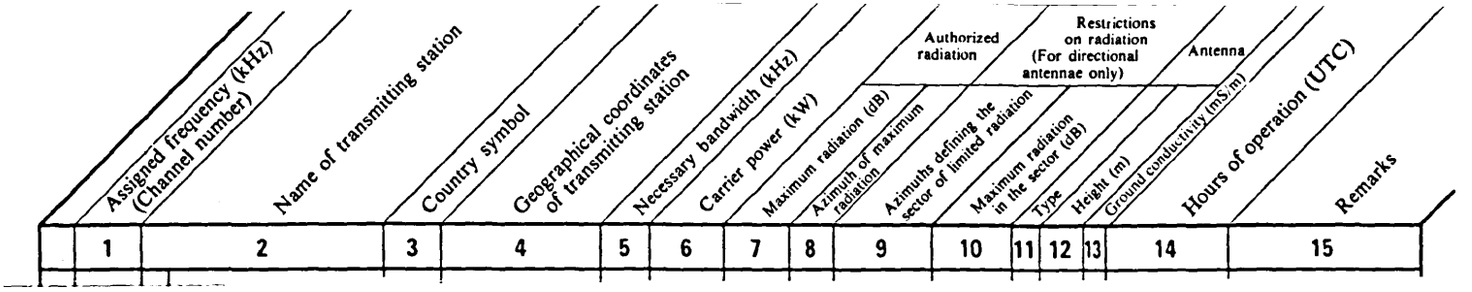
1	1350	S	LAMPANG	THA	99E31 18N17	A20	10	10.4				A	53	5	0000—2400	
2	(92)	S	SURIN	THA	103E30 14N53	A20	10	10.4				A	56	3	0000—2400	
3		S	TRANG	THA	99E52 07N40	A20	10	10.4				A	56	3	0000—2400	
4		S	EREVAN	URS	44E30 40N10	C10	500	29.1				A	120	4	0000—2400	
5		S	KULDIGA	URS	21E58 56N58	A16	20	15.1				A	120	4	0000—2400	
6		S	MADONA	URS	26E13 56N49	C10	50	19.1				A	120	4	0000—2400	
7		S	SUKHUMI	URS	41E00 43N00	A16	30	16.9				A	120	4	0000—2400	
8			STUDIO B 1	YUG	20E29 44N47	D 9	10	10.4				A	55	3	0000—2400	
9			ZABOK	YUG	15E54 46N02	D 9	1	0.4				A	40	4	0800—1500	7



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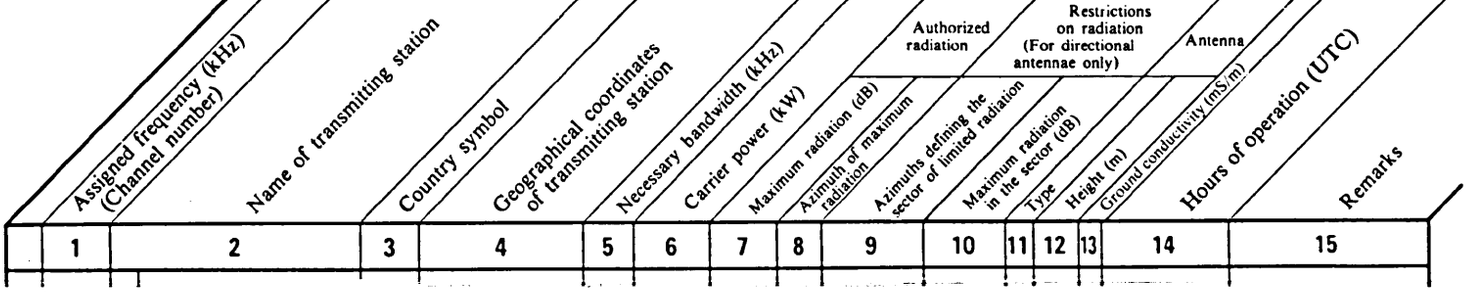
1	1359		TIRANE	ALB	19E51 41N18	A20	50	17.6				A	85	5	0500—2300	
2	(93)		ABHA	ARS	42E30 18N15	C 9	20	15.1				A	120	4	0000—2400	24
3			YOUNG NSW	AUS	148E20 34S20	A20	5	7.4				A	59	3	1900—1400	
4		S	AKSU	CHN	80E19 41N03	A20	10	10.4				A	60	4	2000—1800	
5		S	ALTAY	CHN	88E18 47N50	A20	10	10.4				A	60	4	2000—1800	
6		S	ALXA ZUOQI	CHN	105E41 38N50	A20	5	7.4				A	60	4	2000—1800	
7		S	ANKANG	CHN	109E05 32N44	A20	5	7.4				A	60	4	2000—1800	
8		S	ANSHUN SHI	CHN	105E55 26N15	A20	10	10.4				A	60	5	2000—1800	
9		S	ANTU	CHN	128E22 42N33	A20	10	10.4				A	60	4	2000—1800	
10		S	BAODING	CHN	115E33 38N51	A20	50	17.4				A	60	4	2000—1800	
11		S	BIJIANG	CHN	98E52 26N34	A20	10	10.4				A	60	5	2000—1800	
12		S	BIJIE	CHN	105E16 27N18	A20	5	7.4				A	60	5	2000—1800	
13		S	BINCHUAN	CHN	100E33 25N50	A20	10	10.4				A	60	5	2000—1800	
14		S	BOLE	CHN	82E08 44N54	A20	10	10.4				A	60	4	2000—1800	
15		S	CHANGLING	CHN	123E59 44N16	A20	10	10.4				A	60	4	2000—1800	
16		S	CHANGNING	CHN	99E29 24N51	A20	10	10.4				A	60	5	2000—1800	
17		S	CHANGTING	CHN	116E18 25N50	A20	10	10.4				A	60	4	2000—1800	
18		S	CHENGKOU	CHN	108E47 31N57	A20	5	7.4				A	60	4	2000—1800	
19		S	DAAN	CHN	124E18 45N30	A20	10	10.4				A	60	4	2000—1800	
20		S	DEJIANG	CHN	108E08 28N10	A20	20	13.4				A	60	5	2000—1800	
21		S	FENGJIE	CHN	109E31 31N04	A20	5	7.4				A	60	4	2000—1800	
22		S	FUAN	CHN	119E33 27N11	A20	10	10.4				A	60	4	2000—1800	
23		S	GARZE	CHN	99E58 31N38	A20	5	7.4				A	60	4	2000—1800	
24		S	GEJIU	CHN	103E08 23N21	A20	20	13.4				A	60	5	2000—1800	
25		S	GONGHE	CHN	100E40 36N18	A20	20	13.4				A	60	5	2000—1800	
26		S	GUI XIAN	CHN	109E36 23N06	A20	40	16.4				A	60	4	2000—1800	
27		S	GUYUAN	CHN	106E22 36N01	A20	10	10.4				A	60	4	2000—1800	
28		S	HAMI	CHN	93E20 42N50	A20	10	10.4				A	60	4	2000—1800	
29		S	HORQIN YZH QI	CHN	121E24 45N07	A20	10	10.4				A	60	4	2000—1800	
30		S	HUALIAN	CHN	121E37 23N55	A20	50	17.4				A	60	5	2000—1800	
31		S	HUANGCHUAN	CHN	115E02 32N07	A20	5	7.4				A	60	4	2000—1800	
32		S	HUNCHUN	CHN	130E21 42N52	A20	5	7.4				A	60	4	2000—1800	
33		S	HUNJIANG	CHN	126E23 41N54	A20	20	13.4				A	60	4	2000—1800	
34		S	JIAMUSI	CHN	130E30 46N40	A20	1	0.4				A	60	4	2000—1800	
35		S	JIANYANG	CHN	118E08 27N20	A20	20	13.4				A	60	4	2000—1800	
36		S	JILIN SHI	CHN	126E30 43N48	A20	10	10.4				A	60	4	2000—1800	
37		S	JINGHONG	CHN	100E43 22N01	A20	10	10.4				A	60	5	2000—1800	
38		S	JINHUA	CHN	119E30 29N15	A20	10	10.4				A	60	4	2000—1800	
39		S	KANGDING	CHN	102E00 30N00	A20	5	7.4				A	60	4	2000—1800	
40		S	KARAMAY	CHN	85E00 45N32	A20	10	10.4				A	60	4	2000—1800	
41		S	KORLA	CHN	86E10 41N44	A20	10	10.4				A	60	4	2000—1800	
42		S	KUANCHENG	CHN	118E29 40N36	A20	10	10.4				A	60	4	2000—1800	
43		S	LESHAN	CHN	103E40 29N37	A20	5	7.4				A	60	4	2000—1800	
44		S	LONG XIAN	CHN	106E51 34N49	A20	10	10.4				A	60	4	2000—1800	
45		S	LUODIAN	CHN	106E40 25N29	A20	20	13.4				A	60	5	2000—1800	
46		S	LUOHE	CHN	114E01 33N32	A20	20	13.4				A	60	4	2000—1800	
47		S	LUZHOU	CHN	105E21 28N47	A20	10	10.4				A	60	4	2000—1800	
48		S	MAQEN	CHN	100E09 34N22	A20	20	13.4				A	60	5	2000—1800	
49		S	MENYUAN	CHN	101E37 37N23	A20	10	10.4				A	60	5	2000—1800	
50		S	MIAN XIAN	CHN	106E40 33N09	A20	5	7.4				A	60	4	2000—1800	
51		S	NANCHONG SHI	CHN	106E05 30N48	A20	20	13.4				A	60	4	2000—1800	
52		S	NANJING	CHN	118E54 32N06	A20	20	13.4				A	60	3	2000—1800	
53		S	NANTONG SHI	CHN	120E40 32N05	A20	10	10.4				A	60	3	2000—1800	
54		S	NINGBO	CHN	121E32 29N52	A20	20	13.4				A	60	4	2000—1800	

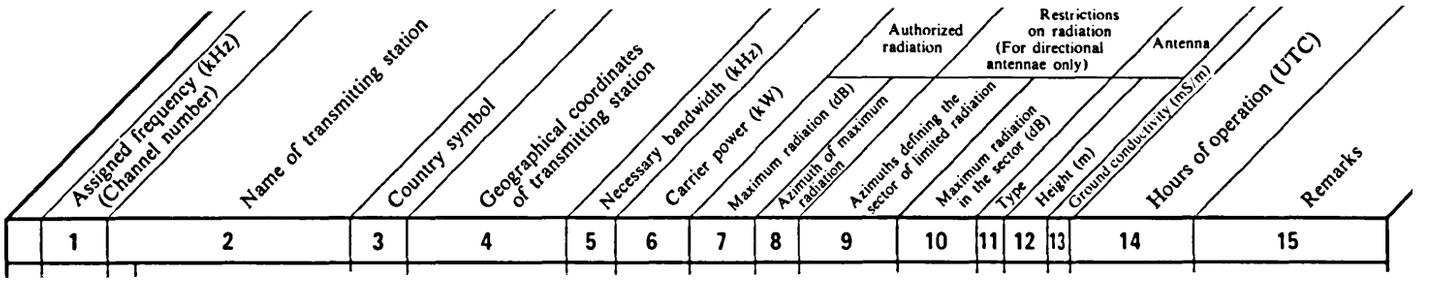
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1359	S	PINGHU	CHN	121E01 30N42	A20	10	10.4				A	60	4	2000—1800	
2	(93)	S	PINGXIANG 2	CHN	106E45 22N11	A20	10	10.4				A	60	4	2000—1800	
3		S	QINGFENG	CHN	115E06 35N54	A20	10	10.4				A	60	4	2000—1800	
4		S	QINGLONG	CHN	105E13 25N51	A20	5	7.4				A	60	5	2000—1800	
5		S	QINZHOU	CHN	108E37 21N58	A20	10	10.4				A	60	4	2000—1800	
6		S	QUANZHOU 1	CHN	118E33 24N53	A20	10	10.4				A	60	4	2000—1800	
7		S	QUJING	CHN	103E40 25N28	A20	10	10.4				A	60	5	2000—1800	
8		S	RONGJIANG	CHN	108E31 25N55	A20	10	10.4				A	60	5	2000—1800	
9		S	SERXU	CHN	98E05 32N58	A20	5	7.4				A	60	4	2000—1800	
10		S	SHANGQIU SHI	CHN	115E39 34N27	A20	10	10.4				A	60	4	2000—1800	
11		S	SHENMU	CHN	110E30 38N49	A20	10	10.4				A	60	4	2000—1800	
12		S	SHIBING	CHN	108E07 27N03	A20	10	10.4				A	60	5	2000—1800	
13		S	SIPING	CHN	124E20 43N10	A20	5	7.4				A	60	4	2000—1800	
14		S	SUQIAN	CHN	118E18 33N57	A20	5	7.4				A	60	3	2000—1800	
15		S	TAIBEI SHI	CHN	121E28 25N05	A20	50	17.4				A	60	5	2000—1800	
16		S	TAIDONG	CHN	121E08 22N47	A20	20	13.4				A	60	5	2000—1800	
17		S	TONGLIAO SHI	CHN	122E13 43N40	A20	20	13.4				A	60	4	2000—1800	
18		S	WEICHANG	CHN	117E45 41N57	A20	5	7.4				A	60	4	2000—1800	
19		S	WENZHOU	CHN	120E36 28N06	A20	10	10.4				A	60	4	2000—1800	
20		S	XIAN	CHN	108E54 34N12	A20	50	17.4				A	60	4	2000—1800	
21		S	XIANGCHENG	CHN	99E42 28N55	A20	5	7.4				A	60	4	2000—1800	
22		S	XINGTAI SHI	CHN	114E31 37N04	A20	5	7.4				A	60	4	2000—1800	
23		S	YANCHENG	CHN	120E08 33N24	A20	10	10.4				A	60	3	2000—1800	
24		S	YECHENG	CHN	77E22 37N55	A20	20	13.4				A	60	4	2000—1800	
25		S	ZHAOJUE	CHN	102E49 28N02	A20	5	7.4				A	60	4	2000—1800	
26		S	ZHAOTONG	CHN	103E34 27N20	A20	10	10.4				A	60	5	2000—1800	
27		S	ZHENGZHOU	CHN	113E42 34N42	A20	50	17.4				A	60	4	2000—1800	
28		S	ZHIDAN	CHN	108E46 36N50	A20	10	10.4				A	60	4	2000—1800	
29		S	ZHONGWEI	CHN	105E11 37N30	A20	50	17.4				A	60	4	2000—1800	
30		S	ZIGONG	CHN	104E40 29N27	A20	1	0.4				A	60	4	2000—1800	
31		S	ZIZHOU	CHN	110E02 37N37	A20	10	10.4				A	60	4	2000—1800	
32		S	ZUNYI SHI	CHN	106E50 27N32	A20	5	7.4				A	60	5	2000—1800	
33			ABIDJAN	CTI	04W01 05N26	C 9	50	19.1				A		7	0600—2400	
34			BERLIN	DDR	13E35 52N28	D 9	250	24.4				A	50	4	0400—1800	
35			BERLIN	DDR	13E35 52N28	D 9	100	20.4				A	50	4	1800—0400	
36			FIGUERAS	E	03E00 42N15	D 9	1000	38.0	240	320—340	10.0	B		4	0000—2400	19
37			FIGUERAS	E	03E00 42N15	D 9	1000	38.0		350—110	8.0	B				
38			MAKALE	ETH	39E28 13N31	C 9	10	10.4				A	55	3	0400—2100	
39			CARDIFF	G	03W12 51N28	A20	0.4	−7.0				B		4	0000—2400	
40			CHELMSFORD	G	00E25 51N42	A20	0.3	−4.5				A	61	4	0000—2400	
41			COVENTRY	G	01W24 52N27	A20	0.5	−2.8	210			B		3	0000—2400	
42			FERN BARROW	G	01W54 50N44	A20	0.3	−4.6				A	45	4	0000—2400	
43			BHADRAVATI 1	IND	75E36 13N53	A20	300	26.9				A	115	3	0300—1000	25
44			BHADRAVATI 2	IND	75E36 13N53	A20	100	22.1				A	115	3	1000—0300	
45			JEYPORE	IND	82E40 18N51	A20	20	15.1				A	115	4	0300—1000	25
46			JODHPUR	IND	72E58 26N20	A20	20	15.1				A	115	4	0300—0900	25
47			MADURAI	IND	78E15 09N25	A20	20	15.1				A	115	3	0300—1000	25
48			PARBHANI	IND	76E50 19N08	A20	20	15.1				A	115	3	0300—1000	25
49			TEZPUR	IND	92E42 26N48	A20	20	15.1				A	115	3	0300—0900	25
50			UJUNGPANDANG	INS	119E28 05S09	A18	10	10.4				A	55	4	2100—1600	
51			GALWAY 2	IRL	09W04 53N17	A20	2	3.4				A	50	4	0000—2400	
52			EILAT	ISR	35E00 29N40	D 9	10	10.4				A	45	3	0000—2400	33
53			ESASHI	J	140E08 41N51	A15	0.1	−9.6				A	47	5	0000—2400	
54			FUKUCHIYAMA	J	135E07 35N18	A15	0.1	−9.4				A	67	5	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1359	HAMADA	J	132E05 34N54	A15	0.1	−9.4				A	67	5	0000−2400	
2	(93)	IKEDA TOKUSHIM	J	133E49 34N02	A15	0.1	−9.4				A	67	5	0000−2400	
3		KATSUYAMA	J	136E32 36N01	A15	0.1	−9.4				A	71	5	0000−2400	
4		KURAYOSHI	J	133E48 35N25	A15	0.1	−9.6				A	47	5	0000−2400	
5		MIYAKO	J	141E58 39N38	A15	0.1	−9.4				A	71	5	0000−2400	
6		MIYAKONOJO	J	131E05 31N46	A15	0.1	−9.6				A	47	5	0000−2400	
7		NAKATOMBETSU	J	142E18 44N58	A15	0.1	−9.4				A	71	5	0000−2400	
8		NAKATSUGAWA	J	137E29 35N29	A15	0.1	−9.4				A	67	5	0000−2400	
9		NEMURO	J	145E36 43N20	A15	0.1	−9.4				A	67	4	0000−2400	
10		OBAMA FUKUI	J	135E45 35N30	A15	0.1	−9.4				A	67	5	0000−2400	
11		ODATE	J	140E34 40N16	A15	0.1	−9.4				A	67	5	0000−2400	
12		OFUNATO	J	141E44 39N05	A15	0.1	−9.4				A	67	5	0000−2400	
13		OKAYA SUWA	J	138E04 36N03	A15	0.1	−9.4				A	67	5	0000−2400	
14		RUMOI	J	141E39 43N56	A15	0.1	−9.6				A	47	5	0000−2400	
15		SHIMONOSEKI	J	130E56 33N58	A15	0.1	−9.4				A	67	5	0000−2400	
16		SHINGU	J	136E00 33N43	A15	0.1	−9.4				A	67	5	0000−2400	
17		SHOBARA	J	133E02 34N51	A15	0.1	−9.6				A	47	5	0000−2400	
18		TADAMI	J	139E22 37N18	A15	0.1	−9.4				A	71	5	0000−2400	
19		TAKACHIHO	J	131E18 32N42	A15	0.1	−9.4				A	71	5	0000−2400	
20		TAKADA	J	138E17 37N06	A15	0.1	−7.9				A	109	5	0000−2400	
21		TOYOHASHI	J	137E22 34N46	A15	0.1	−9.4				A	71	5	0000−2400	
22		TSUWANO	J	131E46 34N27	A15	0.1	−9.6				A	47	5	0000−2400	
23		WAJIMA	J	136E55 37N22	A15	0.1	−9.4				A	71	5	0000−2400	
24		YONEZAWA	J	140E06 37N54	A15	0.1	−9.6				A	47	5	0000−2400	
25		MARALAL	KEN	36E40 01N05	C 9	5	9.1				A	100	4	0000−2400	
26		OSAN	KOR	127E06 37N07	C10	1	0.4				A	33	4	0000−2400	
27		ONSONG	KRE	129E51 42N57	A16	1	0.4				A	30		2000−1800	
28		LOUREN MARQUES	MOZ	32E36 25S58	C10	5	7.4				A	54	4	0000−2400	
29		QUEENSTOWN	NZL	168E41 45S03	A20	2	3.4				A	50	6	0000−2400	
30		CEBU CITY	PHL	123E52 10N17	C 9	1	0.6				A	68	3	2100−1600	
31		S FERNANDO LU	PHL	120E19 16N36	C 9	1	0.6				A	68	3	2100−1600	
32	S	KAINTEBA	PNG	146E02 07S28	D10	2	3.4				A	30	5	1900−1300	
33	S	KEREMA	PNG	145E46 07S59	D10	10	10.6				A	80	3	1900−1300	
34	S	CORABIA	ROU	24E30 43N48	A20	2	5.1				A	104	3	0300−2300	
35	S	DARMANESTI	ROU	26E20 46N22	C 9	1	0.4				A	55	5	0300−2300	
36	S	ZALAU	ROU	23E06 47N15	C 9	2	3.4				A	55	4	0300−2300	
37		TAGA	SMO	172W32 13S48	A20	2	3.4				A	60	6	0000−2400	
38		ABECHER	TCD	20E48 13N47	C 9	100	22.1				A			0400−2300	
39		TANGA	TGK	38E30 05S21	C 9	20	16.4				A	149	4	0300−2100	
40		BANGKOK	THA	100E30 13N46	A20	10	10.4				A	50	2	0000−2400	
41	S	GDOV	URS	27E51 58N41	A18	5	9.1				A	120	4	0000−2400	
42	S	IVANOFRANKOVSK	URS	24E32 48N36	A18	5	9.1				A	120	4	0000−2400	
43	S	LIPETSK	URS	39E35 52N38	A18	5	9.1				A	120	4	0000−2400	
44		MOSKVA	URS	37E08 55N45	A16	15	13.9				A	120	4	0000−2400	
45	S	SMOLENSK	URS	31E43 54N48	A18	5	9.1				A	120	4	0000−2400	
46		DELNICE 2	YUG	14E50 45N22	D 9	10	10.4				A	60	4	0800−1500	
47		VRBAS KULA	YUG	19E35 45N36	D 9	2	3.6				A	60	3	0800−1500	7



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1368		TABOUK	ARS	36E30 28N25	C 9	20	15.1				A	120	4	0400—1400	24
2	(94)		GOULBURN NSW	AUS	149E42 34S45	A20	5					B		3	0000—2400	
3			MT ISA QLD	AUS	139E30 20S43	A20	2	3.0				A	21	2	1900—1400	
4			RAFAI	CAF	23E56 04N58	C 9	10	10.6				A	78	5	0400—2300	
5			CHONGQING	CHN	106E30 29N45	A20	10	10.4				A	60	4	2000—1800	
6		S	EJENHORO QI	CHN	109E41 39N15	A20	10	10.4				A	60	4	2000—1800	
7		S	LINHE	CHN	107E20 40N44	A20	50	17.4				A	60	4	2000—1800	
8		S	SUNID YOUQI	CHN	113E35 43N45	A20	20	13.4				A	60	4	2000—1800	
9			WUHAN	CHN	114E20 30N36	A20	10	10.4				A	60	4	2000—1800	
10		S	ZHENGLAN QI	CHN	116E00 42N18	A20	10	10.4				A	60	4	2000—1800	
11			FARAFRA	EGY	27E53 27N05	D 9	20	15.1				A	100	4	0000—2400	24
12			FOXDALE	G	04W39 54N10	A20	10	13.0	225			B		4	0000—2400	
13			FOXDALE	G	04W39 54N10	A20	10	13.0	45			B				
14			LINCOLN	G	00W34 53N13	A20	2	6.0	100	250—310	—9.0	B		3	0000—2400	
15			TENKODOGO	HVO	00W22 11N46	A20	30	16.9				A	118	4	0000—2400	5/NIG
16		S	BARI	I	16E52 41N07	D 9	10	10.4				A	55	4	0000—2400	
17		S	CAGLIARI	I	09E07 39N13	D 9	5	7.4				A	55	3	0000—2400	
18		S	CATANIA	I	15E05 37N32	D 9	5	9.1				A	103	5	0000—2400	
19		S	FIRENZE	I	11E15 43N45	D 9	5	7.6				A	62	4	0000—2400	
20		S	GENOVA	I	08E55 44N25	D 9	10	12.1				A	102	5	0000—2400	
21		S	MESSINA	I	15E32 38N11	D 9	5	7.6				A	62	5	0000—2400	
22		S	MILANO	I	09E12 45N26	D 9	20	13.6				A	66	4	0000—2400	
23		S	NAPOLI	I	14E12 40N52	D 9	20	16.4				A	130	5	0000—2400	
24		S	PALERMO	I	13E21 38N09	D 9	5	7.6				A	65	4	0000—2400	
25		S	PISA	I	10E24 43N43	D 9	5	7.4				A	55	3	0000—2400	
26		S	ROMA	I	12E26 41N54	D 9	10	12.1				A	112	5	0000—2400	
27		S	SASSARI	I	08E27 40N45	D 9	5	7.6				A	62	4	0000—2400	
28		S	TORINO	I	07E44 45N02	D 9	10	10.6				A	80	4	0000—2400	
29		S	TRENTO	I	11E07 46N04	D 9	5	7.4				A	55	5	0000—2400	
30		S	VENEZIA	I	12E18 45N29	D 9	25	14.6				A	70	3	0000—2400	
31		S	VERONA	I	11E00 45N27	D 9	2	3.6				A	62	5	0000—2400	
32			AGARTALA	IND	91E23 23N50	A20	20	15.1				A	110	3	0300—0900	25
33			CUDDAPAH	IND	78E49 14N29	A20	20	15.1				A	110	3	0300—1000	25
34			DELHI	IND	77E12 28N38	A20	300	26.9				A	110	3	0000—2400	
35			ROURKELA	IND	85E00 22N12	A20	20	15.1				A	110	4	0300—0900	25
36			SANGLI	IND	74E36 16N53	A20	20	15.1				A	110	3	0300—1000	25
37			VARANASHI	IND	83E00 25N20	A20	20	15.1				A	110	3	0300—0900	25
38			BANDARFARAHNAZ	IRN	49E58 37N25	A20	200	25.0	90	120—150	11.0	B		2	0200—2100	
39			BANDARFARAHNAZ	IRN	49E58 37N25	A20	200	25.0		230—260	11.0	B				
40			BANDARFARAHNAZ	IRN	49E58 37N25	A20	200	25.0		320— 50	11.0	B				
41			YAMIT	ISR	34E20 31N10	D 9	30	20.0	210			B		1	0000—2400	33
42			KAWAMOTO	J	132E29 34N58	A15	0.1	—9.4				A	71	5	0000—2400	
43			KUMANO	J	136E06 33N53	A15	0.1	—9.4				A	71	5	0000—2400	
44			MIYAKO OKINAWA	J	125E17 24N49	A15	0.1	—9.4				A	71	5	0000—2400	
45			TAISHO	J	132E59 33N12	A15	0.1	—9.4				A	71	5	0000—2400	
46			TAKAMATSU	J	134E04 34N19	A15	5	10.0	250			B		4	0000—2400	
47			TOTTORI	J	134E12 35N31	A15	1	2.1				A	108	5	0000—2400	
48			TSURUOKA	J	139E52 38N44	A15	1	2.1				A	109	5	0000—2400	
49			YAWATAHAMA	J	132E27 33N28	A15	0.1	—9.4				A	67	5	0000—2400	
50			NYERI	KEN	36E55 00S27	C 9	20	15.1				A	100	4	0000—2400	
51			CHEONGYANG	KOR	126E48 36N26	C10	1	0.6				A	80	6	0000—2400	
52			MUJU	KOR	127E39 36N00	C10	1	0.4				A	60	6	0000—2400	
53			JANGYEN	KRE	125E06 38N16	A16	2	3.4				A	30		2000—1800	
54			PAKSE	LAO	105E50 15N06	A20	10	10.6				A	77	5	2300—1500	



1368 KHZ (94)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1368		BENIMELLAL	MRC	06W20 32N19	A18	50	19.1				A	110	4	0500—2400	24
2	(94)		CALABAR	NIG	08E18 04N57	C 9	10	10.4				A	47	4	0500—2300	5/HVO
3			WHAKATANE	NZL	177E00 37S56	A20	10	10.4				A	50	4	0000—2400	
4			BAGUIO CITY	PHL	120E35 16N25	C 9	1	0.6				A	67	3	2100—1600	
5			CAGAYAN DE ORO	PHL	124E39 08N29	C 9	1	0.6				A	68	3	2100—1600	
6			S JOSE ANTIQ	PHL	121E56 10N44	C 9	1	0.6				A	69	3	2100—1600	
7			VIRAC CATAND	PHL	124E14 13N35	C 9	1	0.6				A	68	3	2100—1600	
8		S	POMIO	PNG	151E31 05S32	D10	2	3.4				A	30	6	1900—1300	
9		S	RABAUL	PNG	152E10 04S15	D10	10	10.6				A	80	6	1900—1300	
10		S	BIALA PODLASKA	POL	23E05 51N57	C 9	60	19.9				A	104	4	0000—2400	
11		S	KRAKOW	POL	19E53 50N04	C 9	60	19.9				A	104	4	0000—2400	
12		S	LIDZBARK	POL	19E49 53N19	C 9	60	19.9				A	104	4	0000—2400	
13		S	PISZ	POL	22E02 53N32	C 9	10	12.1				A	104	4	0000—2400	
14		S	SLUPSK	POL	17E09 54N23	C 9	60	19.9				A	104	5	0000—2400	
15		S	WIELUN	POL	18E30 51N16	C 9	60	19.9				A	104	4	0000—2400	
16		S	ZIELONA GORA	POL	15E07 52N06	C 9	60	19.9				A	104	5	0000—2400	
17			S LOUIS	SEN	16W29 16N00	C 9	40	19.4				A	125	4	0600—2400	
18			VICTORIA MAHE	SEY	55E27 04S37	A20	10	10.4				A	33	1	0000—2400	
19			SINGAPORE 1	SNG	103E42 01N20	A20	50	17.4				A	55	4	0000—2400	
20		S	CHUMPHON	THA	99E12 10N36	A20	1	0.4				A	32	3	0000—2400	
21		S	NAN	THA	100E44 18N41	A20	50	17.6				A	75	5	0000—2400	
22		S	NOVOSIBIRSK	URS	82E58 55N04	A16	500	32.0	320	110—170	21.0	B		4	0000—2400	
23		S	PETROPAVLO KAZ	URS	69E08 54N53	C10	30	16.9				A	120	4	0000—2400	
24			SANSKI MOST	YUG	16E42 44N46	D 9	1	0.6				A	50	4	0800—1500	7
25			VALJEVO	YUG	19E54 44N17	D 9	10	10.4				A	60	4	0800—1500	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1377		DHAHRAN	ARS	50E06 26N18	C 9	20	15.1				A	120	3	0000—2400	24
2	(95)		ALICE SPR NT	AUS	133E52 23S43	A20	2	3.0				A	21	3	1900—1400	
3			MORNINGTON VIC	AUS	145E13 37S56	A20	5					B		2	0000—2400	
4		S	BUSHENG	CHN	81E09 30N17	A20	10	10.4				A	60	5	2000—1800	
5			DEHUA	CHN	118E15 25N30	A20	200	25.1				A	120	4	2000—1800	
6		S	GEGYA	CHN	80E58 32N30	A20	10	10.4				A	60	5	2000—1800	
7			KARAMAY	CHN	85E00 45N32	A20	1	0.4				A	40	4	2000—1800	
8		S	LHASA	CHN	90E59 29N30	A20	100	22.1				A	120	5	2000—1800	
9			QINGDAO	CHN	120E20 36N03	A20	10	10.4				A	60	4	2000—1800	
10		S	RUTO	CHN	79E44 33N25	A20	1	0.4				A	60	5	2000—1800	
11			MAKABANA	COG	12E46 03S29	A20	5	7.4				A	54	5	0000—2400	
12			LILLE	F	03E00 50N31	D 9	300	30.8				B		3	0000—2400	
13			KUMASI	GHA	01W37 06N45	C 9	50	17.0				A	200	4	0500—2300	
14			GUECKEDOU	GUI	10W09 08N33	C 9	50	17.4				A	52	4	0000—2400	
15			ALLEPPEY	IND	76E23 09N30	A20	20	15.1				A	110	4	0300—1000	25
16			BARODA	IND	73E16 22N17	A20	20	15.1				A	110	3	0300—0900	25
17			DARBHANGA	IND	85E56 26N09	A20	20	15.1				A	110	3	0300—0900	25
18			DHARMSALA	IND	76E15 32N12	A20	20	15.1				A	110	3	0300—0900	25
19			HYDERABAD 1	IND	78E30 17N20	A20	300	26.9				A	110	3	0300—1000	25
20			HYDERABAD 2	IND	78E30 17N20	A20	100	23.0	160	295— 35	10.0	B		3	1000—0300	
21			HYDERABAD 2	IND	78E30 17N20	A20	100	23.0		25— 40	14.0	B				
22			MYSORE	IND	76E42 12N18	A20	20	15.1				A	110	3	0300—1000	25
23			RAIPUR	IND	81E41 21N15	A20	20	15.1				A	110	3	0300—0900	25
24			SUMENEP	INS	113E51 07S01	A18	2	3.4				A	55	6	2200—1700	
25			HACHINOHE	J	141E27 40N31	A15	1	0.4				A	60	5	0000—2400	
26			NAGASAKI	J	129E53 32N43	A15	1	0.4				A	71	5	0000—2400	
27			YAMAGUCHI	J	131E31 34N02	A15	5	9.1				A	109	5	0000—2400	
28			POCHEON	KOR	127E15 37N53	C10	0.1	−10.0				A	9	6	0000—2400	
29			HOEYANG	KRE	127E15 38N42	A16	1	0.4				A	30		2000—1800	
30			AMBATONDRAZAKA	MDG	48E31 17S48	C 9	5	9.1				A	108	4	0300—2000	
31			DELIMARA	MLT	14E34 35N49	D 9	20	15.1				A	120	4	0000—2400	
32		S	SAIN SHANDA	MNG	110E05 44N50	A18	75	18.8				A	200	4	2200—1500	
33		S	TSETSERLIG	MNG	101E10 47N30	A18	50	17.0				A	200	5	2200—1500	
34			ALHOCEIMA	MRC	03W57 35N10	A18	40	24.0	180	310— 50	10.0	B		5	0500—2400	24
35			KUMARA	NZL	171E09 42S34	A20	10	10.0				A	150	6	0000—2400	
36			FT SANDEMAN	PAK	69E20 31N00	A20	50	17.4				A	54	4	0000—2000	
37			PAGADIAN ZAMBO	PHL	123E26 07N49	C 9	10	10.6				A	67	3	2100—1600	
38			ROXAS CITY	PHL	123E44 11N35	C 9	5	7.6				A	67	3	2100—1600	
39			EVORA 1	POR	07W54 38N32	A20	10	10.4				A	60	3	0000—2400	
40			JOWHAR	SOM	45E30 02N50	A18	25	14.4				A	55	4	0300—2100	
41			SANDLANE	SWZ	30E48 26S38	A20	50	17.4				A	50	7	0400—2200	
42			FT ARCHAMBAULT	TCD	18E21 09N12	C 9	30	16.9				A			0400—2300	
43			MWANZA	TGK	32E52 02S28	C 9	50	19.1				A	112	4	0300—2100	
44			PHITSANULOK	THA	100E16 16N50	A20	10	10.4				A	54	2	0000—2400	
45		S	LUTSK	UKR	25E20 50N45	C 9	50	19.1				A	120	4	0000—2400	
46		S	TCHERNOVTSY	UKR	25E55 48N20	C 9	50	19.1				A	120	4	0000—2400	
47			ALEKSANDROV SA	URS	142E18 50N58	A18	5	9.1				A	120	4	0000—2400	
48		S	IMAN	URS	133E43 45N56	C 9	30	16.9				A	120	4	0000—2400	
49		S	SISIAN	URS	46E45 39N13	B16	25	16.1				A	120	4	0000—2400	
50		S	SKALAT	URS	26E00 49N24	C 9	25	16.1				A	120	4	0000—2400	
51		S	SOVGAVAN	URS	140E20 48N58	A18	5	9.1				A	120	4	0000—2400	
52		S	TOKMAK	URS	29E40 47N00	A16	25	16.1				A	120	4	0000—2400	
53		S	VINNITSA	URS	28E26 49N13	C 9	30	16.9				A	120	4	0000—2400	
54			KUMROVEC	YUG	15E42 46N03	D 9	20	13.4				A	60	3	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1377	S PEC	YUG	20E18 42N39	D 9	10	10.4				A	40	4	0800—1500	
2	(95)	S PEC	YUG	20E18 42N39	D20	2	3.4				A	40	4	1500—0800	
3		S PRIZREN	YUG	20E44 42N12	D 9	10	10.4				A	40	4	0800—1500	
4		S PRIZREN	YUG	20E44 42N12	D20	2	3.4				A	40	4	1500—0800	
5		IDIOFA	ZAI	19E25 04S50	C 9	1	0.4				A	60	8	0000—2400	
6		CHOMA	ZMB	26E58 16S45	A20	10	13.4				A	136	2	0200—2100	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1386	SILVA PORTO	AGL	16E58 12S23	C10	1	0.4				A	56	3	0500—2200	
2	(96)	ADELAIDE SA	AUS	138E30 35S00	A20	5					B		2	0000—2400	
3		PABNA	BGD	89E18 24N02	A20	10	13.4				A	122	3	0000—1800	
4		BODA	CAF	17E28 04N19	C 9	30	15.2				A	54	5	0400—2300	
5		JINMEN	CHN	118E24 24N36	A20	10	10.4				A	60	4	2000—1800	
6		LINHE	CHN	107E20 40N44	A20	50	17.4				A	60	4	2000—1800	
7		LIUZHOU	CHN	109E12 24N18	A20	5	7.4				A	60	4	2000—1800	
8		TIANJIN	CHN	117E09 39N09	A20	50	17.4				A	60	4	2000—1800	
9		S CRUZ TENERIF	CNR	16W15 28N30	A20	2	3.4				A	40	5	0000—2400	
10		MUT	EGY	28E55 25N30	D 9	20	15.1				A	100	4	0000—2400	24
11		ATHINAI	GRC	23E41 37N57	C 9	300	26.9				A	108	5	2300—2200	
12		LABE	GUI	12W17 11N19	C 9	100	22.1				A	94	4	0000—2400	
13		BARSALOG KAYA	HVO	01W00 13N28	A20	50	19.1				A	108	4	0000—2400	
14		ALLAHABAD	IND	81E54 25N28	A20	20	15.1				A	110	3	0300—0900	25
15		DIBRUGARH	IND	94E58 27N29	A20	20	15.1				A	110	3	0300—0900	25
16		GWALIOR	IND	78E10 26N14	A20	20	15.1				A	110	3	0000—2400	
17		PANAJI GOA	IND	73E51 15N28	A20	20	15.1				A	110	4	0300—1000	25
18		RANCHI	IND	85E23 23N23	A20	20	15.1				A	110	3	0300—0900	25
19		LIMERICK	IRL	08W37 52N40	A20	2	3.4				A	50	4	0000—2400	
20		AHWAZ	IRN	48E40 31N20	B16	400	30.0	0	110—240	19.0	B		3	0100—2200	
21		KAGOSHIMA	J	130E45 31N43	A15	10	12.1				A	103	4	0000—2400	
22		KANAZAWA	J	136E37 36N32	A15	10	12.1				A	114	4	0000—2400	
23		MORIOKA	J	141E08 39N38	A15	10	13.4				A	138	5	0000—2400	
24		OKAYAMA	J	133E54 34N37	A15	5	9.1				A	110	4	0000—2400	
25		NAKURU	KEN	36E05 00S07	C 9	20	15.1				A	100	4	0000—2400	
26		MOGPO	KOR	126E23 34N48	C10	10	13.4				A	124	4	0000—2400	
27		SINHUNG	KRE	127E32 40N12	A16	1	0.4				A	30		2000—1800	
28		VADUZ	LIE	09E30 47N12	D 9	500	34.0	298	45—195	11.0	B		6	0000—2400	
29		MORRUMBALA	MOZ	35E35 17S17	C10	10	10.4				A	54	4	0400—2200	
30		LUDERITZ	NMB	15E10 26S39	A20	10	12.1				A	108	4	0000—2400	
31		TURANGI	NZL	175E48 38S59	A20	1	0.4				A	50	5	0000—2400	
32		CALOOCAN CITY	PHL	120E59 14N38	C 9	10	10.6				A	67	3	2100—1600	
33		MALAYBALAY BUK	PHL	125E07 08N06	C 9	5	7.6				A	67	3	2100—1600	
34		CANTON ISLAND	PHX	171W43 02S47	C10	0.3	−4.8				A	55	2	0000—2400	
35		KIRAKIRA	SLM	161E55 10S27	A20	10	12.1				A		1	1900—1200	
36		BANGKOK	THA	100E33 13N47	A20	10	10.4				A	54	2	0000—2400	
37		KAUNAS	URS	23E54 54N52	A16	1000	32.1				A	120	4	0000—2400	
38		TCHEBOKSARY	URS	47E05 56N10	A18	5	9.1				A	120	4	0000—2400	
39		ORASJE	YUG	18E42 45N02	D 9	0.1	−9.6				A	25	3	0800—1500	7
40		VELIKA GORICA	YUG	16E05 45N42	D 9	1	0.6				A	50	3	0800—1500	7

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	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1395		LUSHNJE	ALB	19E40 40N57	C 9	1000	32.1				A	107	5	0300—2400	
2	(97)		GIZAN	ARS	42E31 16N52	C 9	20	15.1				A	120	3	0000—2400	24
3			BROOME WA	AUS	122E15 18S00	A20	10	12.1				A		3	2100—1600	
4			LITHGOW NSW	AUS	150E06 33S24	A20	5					B		5	1900—1400	
5			ANGRA HEROISMO	AZR	27W11 38N42	A20	10	10.4				A	60	4	0000—2400	
6		S	DANGSHAN	CHN	116E21 34N26	A20	20	13.4				A	60	4	2000—1800	
7		S	FUYANG	CHN	115E51 32N54	A20	20	13.4				A	60	4	2000—1800	
8		S	LUAN	CHN	116E30 31N45	A20	20	13.4				A	60	4	2000—1800	
9		S	WUHE	CHN	117E53 33N09	A20	20	13.4				A	60	4	2000—1800	
10		S	WUHU SHI	CHN	118E24 31N18	A20	10	10.4				A	60	4	2000—1800	
11		S	XIUNING	CHN	118E10 29N47	A20	10	10.4				A	60	4	2000—1800	
12			NGABE	COG	16E12 03S12	A20	2	3.4				A	54	5	0000—2400	
13		S	ALGECIRAS	E	05W28 36N05	D 9	5	7.4				A	60	4	0000—2400	
14		S	ALICANTE	E	00W33 38N19	D 9	2	3.4				A	50	4	0000—2400	
15		S	CALAHORRA	E	01W59 42N18	D 9	3	5.1				A	60	4	0000—2400	
16		S	CD REAL	E	03W56 38N59	D 9	2	3.4				A	50	4	0000—2400	
17		S	GRANADA	E	03W34 37N11	D 9	5	7.4				A	60	4	0000—2400	
18		S	HUELVA	E	06W56 37N15	D 9	2	3.4				A	40	4	0000—2400	
19		S	HUESCA	E	00W19 42N08	D 9	2	3.4				A	50	5	0000—2400	
20		S	LA CORUNA	E	08W24 43N19	D 9	5	7.4				A	108	5	0000—2400	
21		S	LEON	E	05W34 42N37	D 9	2	3.4				A	60	4	0000—2400	
22		S	MALAGA	E	04W30 36N40	D 9	100	20.4				A	50	5	0000—2400	19
23		S	SALAMANCA	E	05W40 40N55	D 9	2	3.4				A	40	5	0000—2400	
24		S	SEGOVIA	E	04W07 40N57	D 9	2	3.4				A	40	5	0000—2400	
25		S	TORTOSA	E	00E30 40N46	D 9	2	3.4				A	50	4	0000—2400	
26		S	VALDEPENAS	E	03W30 38N50	D 9	5	7.4				A	50	4	0000—2400	19
27		S	VIGO	E	08W40 42N10	D 9	5	7.4				A	50	5	0000—2400	19
28			HOOGEZAND	HOL	06E45 53N09	D 9	10	10.0				A	72	3	0000—2400	
29			LOPIK	HOL	05E03 52N01	D 9	500	27.4				A	45	4	0000—2400	
30			AIJAL	IND	92E43 23N43	A20	20	15.1				A	110	4	0300—0900	25
31			BHAWANI PATNA	IND	83E18 19N54	A20	20	15.1				A	110	3	0300—1000	25
32			BIKANER	IND	73E22 28N01	A20	20	15.1				A	110	4	0000—2400	
33			JABALPUR	IND	79E59 23N10	A20	20	15.1				A	110	3	0300—0900	25
34			TRICHUR	IND	76E15 10N35	A20	20	15.1				A	110	4	0300—1000	25
35			BANDA ATJEH	INS	95E20 05N30	A18	10	10.4				A	54	5	2200—1700	
36			BANDAR ABBAS	IRN	56E17 27N10	A20	10	10.4				A	54	2	0300—1400	
37			EZYON	ISR	34E57 29N35	A16	50	22.0	200			B		1	0000—2400	33
38			CHORWON	KOR	127E17 38N08	C10	10	10.6				A	80	6	0000—2400	
39			YANGDOK	KRE	126E38 39N15	A16	10	10.4				A	50		2000—1800	
40			TANANARIVE	MDG	47E31 18S54	C 9	20	15.1				A	107	4	0300—2000	
41			KUANTAN	MLA	103E21 03N48	A20	10	12.1				A	100	5	2200—1700	
42		S	ALEG	MTN	13W54 17N03	B20	1	0.4				A	47		0600—2400	24
43		S	BOUTILIMIT	MTN	14W40 17N30	B20	1	0.4				A	47		0600—2400	24
44		S	MBOUT	MTN	12W37 16N02	B20	1	0.4				A	47		0600—2400	24
45		S	TAMCHAKETT	MTN	10W40 17N13	B20	1	0.4				A	47		0600—2400	24
46		S	TIDJIKJA	MTN	11W24 18N33	B20	1	0.4				A	47		0600—2400	24
47		S	TIMBEDRA	MTN	08W12 16N16	B20	1	0.4				A	47		0600—2400	24
48			UYO	NIG	07E50 05N03	C 9	50	17.6				A	75	4	0500—2300	
49			BALCLUTHA	NZL	169E46 46S16	A20	10	10.4				A	50	4	0000—2400	
50			LEGASPI CITY	PHL	123E43 13N09	C 9	1	0.6				A	66	3	2100—1600	
51			SOLANO NV	PHL	121E10 16N31	C 9	1	0.6				A	66	3	2100—1600	
52			LAE	PNG	147E00 06S44	B10	100	20.6				A	80	3	1900—1400	
53			RADZYN PODLASK	POL	22E38 51N48	A20	1	0.4				A	54	5	0000—2400	
54			SLAWNO	POL	16E39 54N22	A20	1	0.4				A	54	5	0000—2400	

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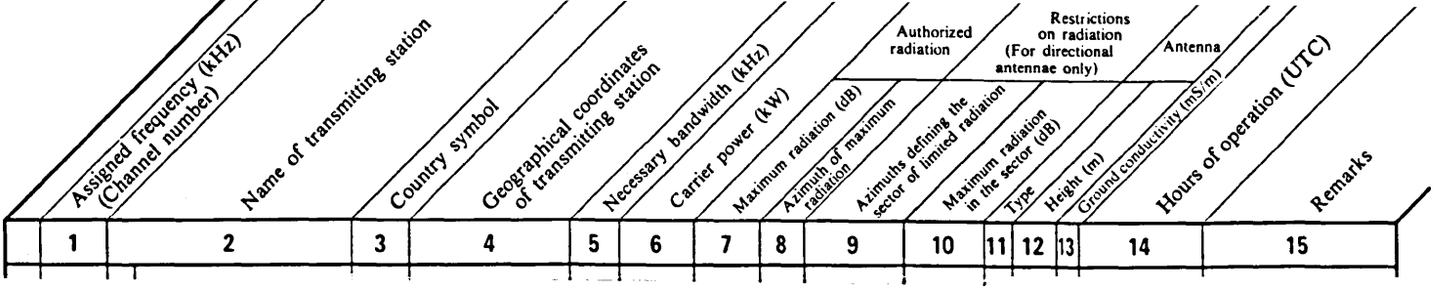
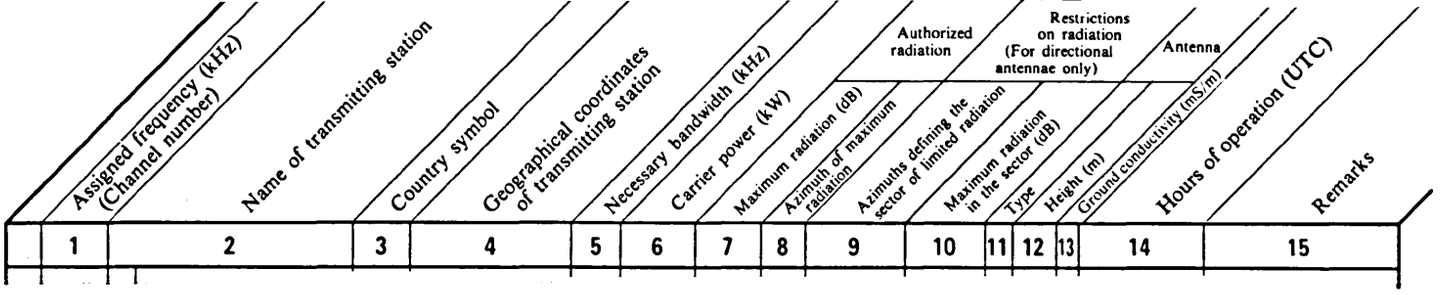
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1395	DODOMA	TGK	35E30 06S10	C 9	20	15.1				A	116	4	0300—2100	
2	(97)	TOGBLEKOPE	TGO	01E12 06N16	A20	20	15.1				A	104	4	0000—2400	
3		CHIANG RAI	THA	99E50 20N09	A20	25	14.4				A	54	5	0000—2400	
4		AGHINSKOE	URS	115E33 51N22	A18	150	24.0	0	90—270	16.0	B		4	0000—2400	
5		BULUN	URS	127E10 70N44	A16	50	19.1				A	120	5	0000—2400	
6		NIJNII TAGHIL	URS	60E00 57N55	A18	5	9.1				A	120	4	0000—2400	
7		URALSK	URS	51E19 51N14	A16	50	19.1				A	120	4	0000—2400	
8		VANAVARA	URS	102E17 60N22	A18	5	9.1				A	120	4	0000—2400	
9		S VOLGA	URS	38E22 57N56	A18	5	9.1				A	120	4	0000—2400	
10		S VYBORG	URS	28E48 60N42	A18	5	9.1				A	120	4	0000—2400	
11		BUGOJNO	YUG	17E27 44N01	D 9	1	0.6				A	50	4	0800—1500	7
12		DOBOJ	YUG	18E04 44N46	D 9	1	0.6				A	50	3	0800—1500	7
13		KOVACICA	YUG	20E37 45N07	D 9	0.2	−7.4				A	40	3	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

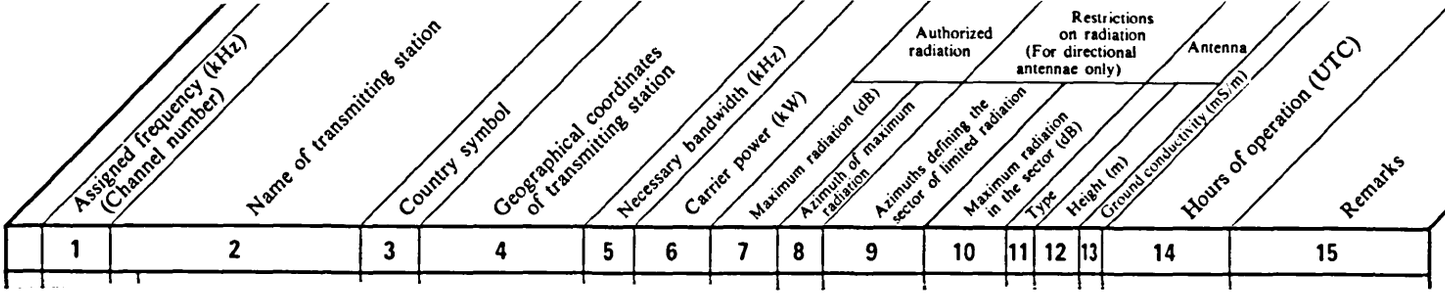
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1404		LOBITO	AGL	13E33 12S23	C10	1	0.4				A	54	3	0600—2300	
2	(98)		ABQAIQ	ARS	49E40 25N57	A20	0.1	−10.0				A	15	4	0100—2400	24
3			DAMMAM	ARS	50E10 26N24	C 9	20	16.4				A	120	3	0400—1400	24
4			DAMMAM	ARS	50E10 26N24	C 9	10	13.4				A	120	3	1400—2300	24
5			PARKES NSW	AUS	148E13 33S09	A20	5	7.4				A	53	3	1900—1400	
6		S	BARANOVITCHI	BLR	26E01 53N08	A16	5	10.4				A	120	4	0000—2400	
7			BAMBARI	CAF	20E40 05N45	C 9	30	16.9				A	115	5	0400—2300	
8			DANDONG	CHN	124E22 40N07	A20	10	10.4				A	50	4	2000—1800	
9		S	MIANYANG	CHN	113E13 30N11	A20	20	13.4				A	50	4	2000—1800	
10		S	QICHUN	CHN	115E20 30N04	A20	20	13.4				A	50	4	2000—1800	
11		S	YICHANG SHI	CHN	111E12 30N48	A20	100	22.1				A	100	4	2000—1800	
12			ASMARA	ETH	38E56 15N21	C 9	10	10.4				A	53	3	0400—2100	
13		S	AJACCIO	F	08E46 41N46	D 9	50	17.4				A	50	6	0000—2400	
14		S	BREST	F	04W09 48N16	D 9	20	16.4				A	130	5	0000—2400	
15		S	CORTE	F	09E10 42N20	D 9	20	16.4				A	120	6	0000—2400	
16		S	DIJON	F	05E01 47N18	D 9	20	13.4				A	50	6	0000—2400	
17		S	GRENOBLE	F	05E39 45N11	D 9	20	15.1				A	110	6	0000—2400	
18		S	PAU	F	00W24 43N18	D 9	20	16.4				A	120	4	0000—2400	
19		S	ROUEN	F	00E44 49N34	D 9	100	23.4				A	120	4	0000—2400	
20			HELSINKI 2	FNL	24E49 60N11	D 9	300	27.8	340	145—180	14.8	B		5	0000—2400	
21			KOMOTINI	GRC	25E24 41N07	C 9	50	17.6				A	75	4	0400—2400	
22			KIPE	GUI	13W39 09N36	C 9	400	28.0	50	160—280	22.0	B		4	0000—2400	
23			COCOS ISLANDS	ICO	96E49 12S09	A20	0.1	−9.6				A		5	2300—1700	
24			AURANGABAD	IND	75E18 19N54	A20	20	15.1				A	110	3	0300—1000	25
25			BANGALORE	IND	77E38 12N58	A20	20	15.1				A	105	3	0300—1000	25
26			PATNA	IND	85E13 25N37	A20	20	15.1				A	110	3	0300—0900	25
27			TEZPUR	IND	92E42 26N48	A20	20	15.1				A	110	3	0000—2400	
28			TUTICORIN	IND	78E12 08N48	A20	20	15.1				A	110	3	0300—0900	25
29			DJAKARTA	INS	106E53 06S14	A18	10	10.4				A	54	5	2200—1700	
30			RASHT	IRN	49E40 37N10	A20	200	26.0	350	30—310	10.0	B		2	1400—2200	
31			ZEFAT	ISR	35E30 32N58	D 9	20	15.1				A	100	3	0000—2400	33
32		S	GOTEMBA	J	138E55 35N20	A15	0.1	−9.4				A	67	5	0000—2400	
33		S	HAMAMATSU	J	137E43 34N44	A15	0.5					B		4	0000—2400	
34			KUSHIRO	J	144E24 42N59	A15	5					B		4	0000—2400	
35		S	SHIZUOKA	J	138E23 34N55	A15	5					B		4	0000—2400	
36			KITALE	KEN	34E58 01N01	C 9	5	9.1				A	100	4	0000—2400	
37			BUSAN	KOR	128E58 35N07	C10	10	10.6				A	83		0000—2400	
38			SONCHON	KRE	124E55 39N46	A16	1	0.4				A	30		2000—1800	
39			TOBRUK	LBY	23E58 32N05	D 9	10	10.4				A	54	4	0400—2200	24
40			BARUNURT	MNG	113E20 46N40	A18	5	10.4				A	120	4	2200—1500	
41			CHITIPA	MWI	33E30 09S19	A20	2	5.1				A	92	3	0200—2300	
42			OGOJA	NIG	08E45 06N40	C 9	50	17.6				A	60	4	0500—2300	
43			WARKWORTH	NZL	174E42 36S23	A20	5	7.4				A	50	4	0000—2400	
44			BANNU	PAK	70E40 33N48	A20	10	10.4				A	54	4	0000—2000	
45			BACOLOD CITY	PHL	122E57 10N41	C 9	5	7.6				A	66	3	2100—1600	
46			S PABLO LAG	PHL	121E20 14N03	C 9	1	0.6				A	66	3	2100—1600	
47			BIALY BOR	POL	16E49 53N50	A20	1	0.4				A	54	5	0000—2400	
48			BOGATYNIA	POL	14E56 50N55	A20	1	0.4				A	54	5	0000—2400	
49			LUBSKO	POL	14E58 51N48	A20	1	0.4				A	54	5	0000—2400	
50			PELCZYCE	POL	15E20 53N03	A20	1	0.4				A	54	5	0000—2400	
51		S	BAIA MARE	ROU	23E30 47N40	A20	15	12.2				A	55	5	0000—2400	
52		S	SIBIU	ROU	24E10 45N47	A20	15	12.2				A	55	5	0000—2400	
53			MULIVAI	SMO	171W46 14S02	A20	10	10.6				A	60	6	0000—2400	
54			HUDDUR	SOM	43E55 04N05	A18	10	10.4				A	55	4	0300—2100	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1404		YALA	THA	101E10 06N48	A20	50	17.4				A	47	3	0000—2400	
2	(98)		YASOTHON	THA	104E09 15N47	A20	10	10.4				A	51	4	0000—2400	
3		S	DNEPROPETROVSK	UKR	35E44 48N48	A16	30	18.2				A	120	4	0000—2400	
4		S	IZMAIL	UKR	28E51 45N20	A16	25	17.4				A	120	4	0000—2400	
5		S	LVOV	UKR	24E00 49N50	A16	30	18.2				A	120	4	0000—2400	
6		S	NARYN	URS	76E00 41N25	A18	5	10.4				A	120	4	0000—2400	
7		S	TALAS	URS	72E00 42N30	A18	5	10.4				A	120	4	0000—2400	
8			SR MITROVICA	YUG	19E38 44N59	D 9	1	0.6				A	60	3	0000—2400	
9			VARAZDIN	YUG	16E19 46N23	D 9	10	10.4				A	50	3	0800—1500	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1413		NEWCASTLE NSW	AUS	151E42 32S51	A20	5	7.4				A	54	3	0000—2400	
2	(99)		COMILLA	BGD	91E13 23N23	A20	10	13.4				A	122	3	0000—1800	
3			PHNOM PENH	CBG	104E55 11N34	C10	20	13.4				A	53	3	0000—2400	
4		S	HABAHE	CHN	87E03 48N04	A20	10	10.4				A	50	4	2000—1800	
5		S	LIANYUNGANG	CHN	119E10 34N36	A20	50	17.4				A	50	3	2000—1800	
6		S	SUZHOU	CHN	120E41 31N18	A20	10	10.4				A	50	3	2000—1800	
7		S	TAIZHOU	CHN	119E55 32N30	A20	10	10.4				A	50	3	2000—1800	
8		S	TAXKORGAN	CHN	75E08 37N42	A20	10	10.4				A	50	4	2000—1800	
9		S	URUMQI SHI	CHN	87E30 43N35	A20	100	22.1				A	100	4	2000—1800	
10			BOKO	COG	14E36 04S51	A20	10	10.4				A	53		0000—2400	
11		S	BAD MERGENTHM	D	09E47 49N30	D 9	3	5.2				A	59	4	0000—2400	
12		S	BUCHEN WALLD	D	09E20 49N32	D 9	0.2	−6.6				A	48	4	0000—2400	
13		S	HEIDENHEIM	D	10E09 48N41	D 9	0.2	−7.0				A	20	4	0000—2400	
14		S	BARCELONA	E	02E09 41N25	D 9	10	10.4				A	80	5	0000—2400	
15		S	CARTAGENA	E	01W00 37N35	D 9	5	7.4				A	40	5	0000—2400	19
16		S	CASTELLON	E	00W02 39N57	D 9	2	3.4				A	60	4	0000—2400	
17		S	CEUTA	E	05W17 35N53	D 9	2	3.4				A	40	4	0000—2400	
18		S	GERONA	E	02E48 41N59	D 9	2	3.4				A	50	4	0000—2400	
19		S	OVIEDO	E	05W50 43N20	D 9	5	7.8				A	80	5	0000—2400	19
20		S	PONTEVEDRA	E	08W36 42N26	D 9	5	7.4				A	40	4	0000—2400	
21		S	SEGOVIA	E	04W05 40N55	D 9	5	7.4				A	40	5	0000—2400	19
22		S	SEVILLA	E	06W03 37N23	D 9	10	10.4				A	80	3	0000—2400	
23		S	VITORIA	E	02W42 42N48	D 9	2	3.4				A	40	5	0000—2400	
24		S	ZAMORA	E	05W45 41N31	D 9	2	3.4				A	40	4	0000—2400	
25		S	ZARAGOZA	E	00W53 41N37	D 9	20	13.4				A	82	4	0000—2400	
26			MERSA ALAM	EGY	34E55 25N03	D 9	20	15.1				A	100	4	0000—2400	24
27			OULU 2	FNL	25E32 65N00	D 9	10	10.6				A	100	5	0000—2400	
28			AJMER	IND	74E42 26N27	A20	20	15.1				A	110	4	0300—0900	25
29			CHHATTARPUR	IND	79E33 24N52	A20	20	15.1				A	110	3	0300—0900	25
30			CHINDWARA	IND	78E55 22N05	A20	20	15.1				A	110	4	0000—2400	
31			COIMBATORE	IND	77E06 11N00	A20	20	15.1				A	110	4	0300—1000	25
32			ITANAGAR	IND	94E42 27N12	A20	20	15.1				A	110	4	0300—0900	25
33			JAGDALPUR	IND	81E55 19N01	A20	20	15.1				A	110	3	0300—1000	25
34			SIMLA	IND	77E12 31N10	A20	20	15.1				A	110	4	0300—0900	25
35			PANGKALPINANG	INS	106E09 02S05	A18	5	7.4				A	53	5	2200—1700	
36			RING	IRL	07W44 52N04	A20	2	5.1				A	100	4	0000—2400	
37			GEROFIT	ISR	35E04 30N34	D 9	10	12.1				A		3	0000—2400	33
38			FUKUOKA	J	130E25 33N41	A15	50	19.1				A	105	4	0000—2400	
39			ICHON	KRE	126E54 38N36	D 9	100	24.0				B		6	2000—1800	
40			MOCUBA	MOZ	36E59 16S50	C10	10	10.4				A	54	4	0400—2200	
41			TOKOROA	NZL	175E47 38S10	A20	2	3.4				A	55	4	0000—2400	
42			MASIRAH 1	OMA	58E54 20N41	A20	1500	35.0	87			B		4	0000—2400	11/G
43			MASIRAH 2	OMA	58E54 20N41	A20	1500	35.0	350			B		4	0000—2400	11/G
44			BUN JAWA	PAK	74E18 32N24	A20	10	10.0				A	27	3	0000—1400	
45			DAVAO CITY	PHL	125E34 07N03	C 9	5	7.6				A	66	3	2100—1600	
46		S	BUIN	PNG	155E42 06S31	B10	2	3.4				A	30	5	1900—1300	
47		S	KIETA	PNG	155E40 06S20	B10	10	10.6				A	80	5	1900—1300	
48		S	SOHANO	PNG	154E41 05S26	B10	2	3.4				A	30	5	1900—1300	
49		S	WAKUNAI	PNG	155E13 05S52	B10	2	3.4				A	30	5	1900—1300	
50			BARLINEK	POL	15E12 53N00	A20	1	0.4				A	53	5	0000—2400	
51			BARTOSZYCE	POL	20E50 54N16	A20	1	0.4				A	53	5	0000—2400	
52			ILAWA	POL	19E33 53N37	A20	1	0.4				A	53	5	0000—2400	
53			PARCZEW	POL	22E53 51N39	A20	1	0.4				A	53	5	0000—2400	
54			POLCZYN ZDROJ	POL	16E06 53N46	A20	1	0.4				A	53	5	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1413		STASZOW	POL	21E08 50N33	A20	1	0.4				A	53	5	0000—2400	
2	(99)		LERE	TCD	14E13 09N39	C 9	1	0.4				A			0400—2300	
3			ARUSHA	TGK	36E40 03S00	C 9	50	19.1				A	98	4	0300—2100	
4			MANGO	TGO	00E28 10N21	A20	10	10.4				A	50	4	0000—2400	
5			BANGKOK	THA	100E35 13N53	A20	10	10.4				A	30	2	2300—1700	
6		S	BELEBEI	URS	54E07 54N05	A18	5	10.4				A	120	4	0000—2400	
7		S	INIA RV	URS	144E23 59N28	A18	5	10.4				A	120	5	0000—2400	
8		S	KAMEN NA OBI	URS	81E19 54N40	A18	5	10.4				A	120	4	0000—2400	
9		S	KIROV KALUJKII	URS	34E20 54N04	A18	5	10.4				A	120	4	0000—2400	
10		S	KOLPACHEVO	URS	82E59 58N18	A18	5	10.4				A	120	4	0000—2400	
11		S	MILLEROVO	URS	40E22 48N55	A18	5	10.4				A	120	4	0000—2400	
12		S	PROKOPIEVSK	URS	86E44 53N54	A18	5	10.4				A	120	4	0000—2400	
13		S	STAVROPOL	URS	42E01 45N06	A18	5	10.4				A	120	4	0000—2400	
14		S	SUKHUMI	URS	40E42 43N00	A18	5	10.4				A	120	4	0000—2400	
15		S	TATARSK	URS	76E00 55N13	A18	5	10.4				A	120	4	0000—2400	
16		S	TBILISI	URS	44E48 41N41	A18	5	10.4				A	120	4	0000—2400	
17		S	VOLGOGRAD	URS	44E12 48N47	C10	50	20.4				A	120	4	0000—2400	
18			DALAT	VTN	108E26 11N58	C10	1	0.4				A	45	4	2200—1500	
19			PRISTINA 1	YUG	21E07 42N40	D 9	1000	32.1				A	106	4	0000—2400	



1422 KHZ (100)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1422	HENRIQCARVACHO	AGL	20E24 09S38	C10	1	0.4				A	54	3	1700—0100	
2	(100)	ALGER	ALG	03E09 36N40	D 9	40	18.1				A	108	2	0600—2400	24
3		RIYADH	ARS	46E23 24N30	C 9	20	16.4				A	120	3	0400—1400	24
4		RIYADH	ARS	46E23 24N30	C 9	10	13.4				A	120	3	1400—2300	24
5		MELBOURNE VIC	AUS	145E06 37S44	A20	5	9.1				A	97	2	0000—2400	
6		BERBERATI	CAF	15E48 04N10	C 9	30	15.2				A	52	3	0400—2300	
7	S	FU XIAN 1	CHN	122E00 39N38	A20	20	13.4				A	50	4	2000—1800	
8	S	JINZHOU	CHN	121E07 41N07	A20	50	17.4				A	50	4	2000—1800	
9	S	QINGYUAN	CHN	124E55 42N06	A20	20	13.4				A	50	4	2000—1800	
10		SHANGHAI	CHN	121E29 31N15	A20	20	13.4				A	50	3	2000—1800	
11	S	ZHANGWU	CHN	122E29 42N24	A20	20	13.4				A	50	4	2000—1800	
12		CHRISTMAS IS	CHR	105E41 10S26	A20	0.5	−2.6				A		7	2300—1700	
13		ABOISSO	CTI	03W13 05N32	C 9	10	12.1				A		7	0600—2400	
14		SAARBRUECKEN	D	06E55 49N21	D 9	1200	37.0	60	200—280	24.0	B		4	0600—1800	
15		SAARBRUECKEN	D	06E55 49N21	D 9	600	32.8	60	200—300	26.8	B		4	1800—0600	
16		SUEZ	EGY	32E31 30N00	D 9	20	15.1				A	100	4	0000—2400	24
17		SODDU	ETH	37E45 06N52	C 9	10	10.4				A	52	3	0400—2100	
18		AMBIKAPUR	IND	83E04 23N10	A20	20	15.1				A	105	4	0300—0900	25
19		DHANBAD 1	IND	86E24 23N48	A20	20	15.1				A	105	3	0300—0900	25
20		DHANBAD 2	IND	86E24 23N48	A20	10	12.1				A	105	3	0900—0300	
21		NAZIBABAD	IND	78E12 29N24	A20	20	15.1				A	105	3	0300—0900	25
22		POONA	IND	73E55 18N31	A20	20	15.1				A	105	3	0300—1000	25
23		RAJKOT 1	IND	70E41 22N22	A20	20	15.1				A	105	3	0300—0900	25
24		RAJKOT 2	IND	70E41 22N22	A20	10	12.1				A	105	3	0900—0300	
25		SINGARADJA	INS	115E04 08S06	A18	10	10.4				A	53	5	2200—1700	
26		KERMANSHAH	IRN	47E07 34N19	A20	100	22.1				A	110	3	0100—2200	
27		YOKOHAMA	J	139E42 35N33	A15	50	19.0	210			B		4	0000—2400	
28		LAMU	KEN	40E52 02S20	C 9	5	9.1				A	100	4	0000—2400	
29		YEONGDEOG	KOR	129E22 36N24	C10	1	0.6				A	80	6	0000—2400	
30		KIFFA	MTN	11W23 16N36	B20	20	15.1				A	106		0600—2400	24
31		PHALOMBE	MWI	35E45 15S50	A20	2	5.1				A	92	3	0200—2300	
32		BOMADI	NIG	05E55 05N10	C 9	50	17.4				A	50	4	0500—2300	
33		OPUNAKE	NZL	173E52 39S27	A20	2	3.4				A	50	5	0000—2400	
34		MALABON RIZAL	PHL	120E57 14N41	C 9	10	10.6				A	65	3	2100—1600	
35		MUSUAN BUK	PHL	125E01 07N49	C 9	5	7.6				A	65	3	2100—1600	
36	S	BERESTI	ROU	27E49 46N08	A20	1	0.4				A	40	2	0300—2300	
37	S	DEVA	ROU	22E50 45N52	A20	2	3.4				A	40	4	0300—2300	
38	S	LAPUS	ROU	23E55 47N29	A20	1	0.4				A	40	4	0300—2300	
39	S	ODORHEI	ROU	25E18 46N19	A20	1	0.4				A	40	4	0300—2300	
40	S	PUCIOASA	ROU	25E24 45N05	A20	1	0.4				A	40	4	0300—2300	
41	S	TIRGU NEAMT	ROU	26E16 47N12	C 9	1	0.4				A	40	3	0300—2300	
42	S	VRATA	ROU	22E51 44N12	D 9	2	3.4				A	40	3	0300—2300	
43		SINGAPORE 1	SNG	103E42 01N20	A20	350	25.8				A	55	4	2200—1800	
44		PHITSANULOK	THA	100E15 16N48	A20	10	10.4				A	45	2	0000—2400	
45		ORDU	TUR	37E53 40N59	D 9	50	19.1				A	106	4	0200—2300	
46		KITGUM	UGA	32E54 03N17	C 9	10	10.6				A	75	4	0300—2100	
47		TCHERNIGOV	UKR	31E19 51N29	A16	5	10.4				A	120	4	0000—2400	
48		BATUMI	URS	41E19 41N39	A16	30	18.2				A	120	4	0000—2400	
49	S	LIEPAIA	URS	21E02 56N33	A16	5	10.4				A	120	4	0000—2400	
50	S	REZEKNE	URS	27E20 56N33	A16	5	10.4				A	120	4	0000—2400	
51	S	VALMIERA	URS	25E29 57N32	A16	50	20.4				A	120	4	0000—2400	
52		PT VILA	VUT	168E18 17S45	A20	20	13.4				A	50	1	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Azimuths defining the sector of limited radiation	Maximum radiation in the sector (dB)	Antenna: Type	Height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1431		PESHKOPI	ALB	20E20 41N40	A20	20	15.1				A	105	6	0400—2300	
2	(101)	S	MUSWELLBRK NSW	AUS	150E55 32S14	A20	2	3.4				A		4	1900—1400	
3		S	WOLLONGONG NSW	AUS	150E52 34S32	A20	5	7.4				A	26	3	0000—2400	
4			CHITTAGONG	BGD	91E50 22N21	A20	10	13.4				A	122	3	0000—1800	
5			PHNOM PENH	CBG	104E55 11N34	C10	1	0.4				A	52	3	0000—2400	
6			BENGBU	CHN	117E45 32N58	A20	5	7.4				A	50	4	2000—1800	
7			HAILAR	CHN	119E45 49N02	A20	100	22.1				A	100	4	2000—1800	
8			ABALA	COG	15E35 01S03	A20	5	7.4				A	52		0000—2400	
9			DRESDEN	DDR	13E30 51N03	D 9	250	24.0				A	150	4	0800—1500	
10			DRESDEN	DDR	13E30 51N03	D 9	150	21.8				A	150	4	1500—0800	
11			DJIBOUTI 3	DJI	43E05 11N35	A20	600	27.8				A	150	3	0000—2400	18/ISR
12		S	KOEBENHAVN	DNK	12E21 55N41	D 9	10					B		4	0000—2400	
13		S	SKIVE	DNK	09E02 56N34	D 9	70	20.6				A	106	4	0000—2400	
14			READING	G	00W58 51N26	A20	0.7	−1.1				A	35	4	0000—2400	
15			SOUTHEND	G	00E39 51N35	A20	0.4	−5.8				B		4	0000—2400	
16		S	BRESSANONE	I	11E39 46N43	D 9	1	0.4				A	50	5	0000—2400	
17		S	BRUNICO	I	11E58 46N48	D 9	1	0.4				A	50	5	0000—2400	
18		S	FOGGIA	I	15E32 41N27	D 9	10	10.4				A	52	3	0000—2400	
19		S	GROSSETO	I	11E07 42N45	D 9	10	10.4				A	52	4	0000—2400	
20		S	MERANO	I	11E09 46N40	D 9	1	0.4				A	50	5	0000—2400	
21		S	MESSINA	I	15E32 38N11	D 9	10	10.6				A	62	5	0000—2400	
22		S	PALERMO	I	13E21 38N09	D 9	12.5	13.1				A	103	5	0000—2400	
23		S	RIMINI	I	12E30 44N05	D 9	20	15.1				A	110	4	0000—2400	
24		S	RIVA DEL GARDA	I	10E42 45N55	D 9	1	0.4				A	50	5	0000—2400	
25		S	SASSARI	I	08E27 40N45	D 9	20	15.1				A	112	4	0000—2400	
26		S	TARANTO	I	17E14 40N28	D 9	1	0.4				A	50	5	0000—2400	
27		S	VERONA	I	11E00 45N27	D 9	2	3.6				A	62	5	0000—2400	
28			CHANDIGARH 1	IND	76E54 30N42	A20	20	15.1				A	105	3	0300—0900	25
29			CHANDIGARH 2	IND	76E54 30N42	A20	10	12.1				A	105	3	0900—0300	
30			INDORE	IND	75E50 22N44	A20	20	15.1				A	105	3	0300—0900	25
31			KOZHIKODE 1	IND	75E50 11N15	A20	20	15.1				A	105	4	0300—1000	25
32			KOZHIKODE 2	IND	75E50 11N15	A20	10	12.1				A	105	4	1000—0300	
33			SILCHAR	IND	92E47 24N45	A20	20	15.1				A	105	4	0300—0900	25
34			EN GEDI	ISR	35E22 31N22	D 9	10	12.1				A		4	0000—2400	18/DJI 33
35			FUKUE	J	128E51 32N40	A15	1	0.4				A	50	5	0000—2400	
36		S	GIFU	J	136E42 35N25	A15	5	7.6				A	67	5	0000—2400	
37		S	GUJYO HACHIMAN	J	136E57 35N45	A15	0.1	−9.6				A	50	5	0000—2400	
38			ISHIGAKI	J	124E08 24N22	A15	1	0.6				A	70	5	0000—2400	
39			IWAKI	J	140E55 37N03	A15	1	0.4				A	52	5	0000—2400	
40			JOHEN	J	132E33 32N58	A15	0.1	−9.6				A	50	5	0000—2400	
41		S	KUROBE	J	137E33 36N55	A15	1	2.1				A	105	5	0000—2400	
42			KUSHIMOTO	J	135E47 33N27	A15	0.1					B		5	0000—2400	
43		S	TAJIMI	J	137E10 35N20	A15	0.1	−9.4				A	65	5	0000—2400	
44		S	TONAMI	J	136E57 36N38	A15	1	2.1				A	105	5	0000—2400	
45			WAKAYAMA	J	135E09 34N15	A15	5					B		4	0000—2400	
46			YANGPYEONG	KOR	127E30 37N30	C10	1	3.4				A	120	4	0000—2400	
47			BAMAKO 1	MLI	07W58 12N38	C 9	60	19.9				A	104		0600—2400	
48			BAMAKO 2	MLI	08W02 12N41	C 9	100	22.1				A	104		0600—2400	
49			DELIMARA	MLT	14E34 35N49	D 9	20	16.4				A	120	4	0000—2400	
50			BEIRA	MOZ	34E44 19S36	C10	10	10.4				A	54	4	0400—2200	
51			DUNEDIN	NZL	170E30 45S53	A20	1	0.4				A	30	4	0000—2400	
52			DAGUPAN CITY	PHL	120E20 16N01	C 9	5	7.6				A	65	3	0000—2400	

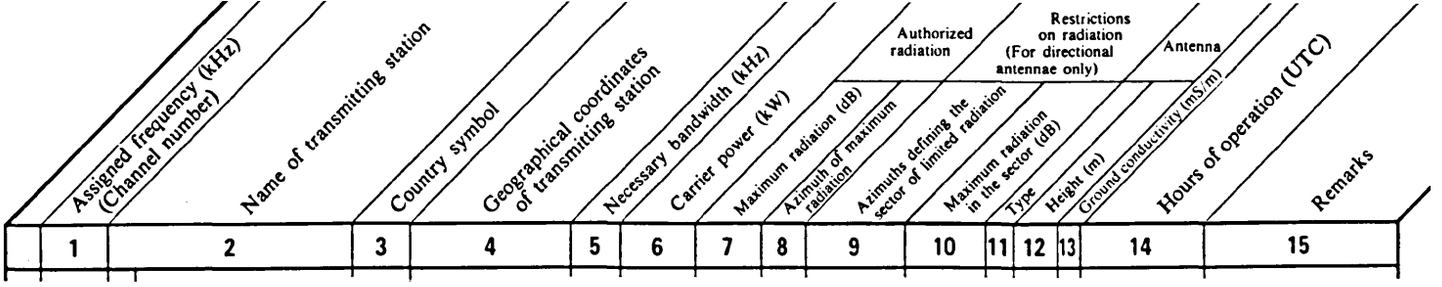
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1431 KHZ (101)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1431	S	BRAGA 1	POR	08W10 41N37	A20	10	12.1				A	90	5	0000–2400	
2	(101)	S	CHAVES 1	POR	07W25 41N45	A20	1	2.1				A	90	5	0000–2400	
3		S	EVORA 1	POR	07W54 38N32	A20	1	2.1				A	90	3	0000–2400	
4		S	MIRANDA DOURO1	POR	06W16 41N29	A20	1	2.1				A	90	6	0000–2400	
5		S	MONTEMORVELHO1	POR	08W38 40N12	A20	100	20.0				A	180	5	0000–2400	
6		S	PORTALEGRE 1	POR	07W25 39N18	A20	1	2.1				A	90	5	0000–2400	
7			DAPANGO	TGO	00E12 10N51	A20	10	10.4				A	50	4	0000–2400	
8			SONGKHLA	THA	100E35 07N12	A20	10	10.4				A	35	3	0000–2400	
9			KRIVOI ROG	UKR	33E25 47N55	A16	500	30.4				A	120	4	0000–2400	
10		S	OCH	URS	72E48 41N27	A16	50	20.4				A	120	4	0000–2400	
11		S	PRJEVALSK	URS	78E26 42N29	A16	50	20.4				A	120	4	0000–2400	
12		S	SULIUKTA	URS	69E34 39N56	A18	5	10.4				A	120	4	0000–2400	
13			BEOCIN	YUG	19E47 45N11	D 9	0.2	−7.4				A	45	3	0800–1500	7
14			KRIZEVCI	YUG	16E36 46N01	D 9	1	0.6				A	50	4	0800–1500	7
15			PROBISTIP	YUG	22E10 42N00	D 9	1	0.6				A	40	5	0800–1500	7

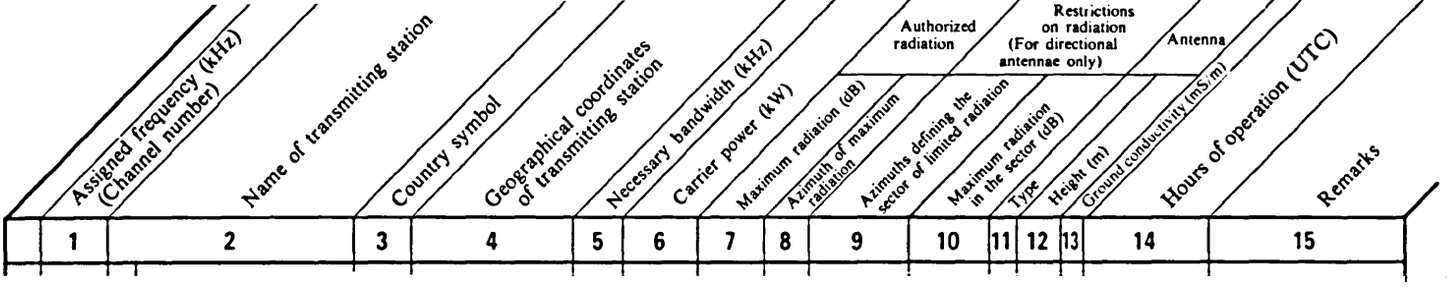
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1440		DAMMAM	ARS	49E54 26N43	C 9	1600	36.0	90	200—350	17.0	B		3	0000—2400	24
2	(102)		SAFANIYA	ARS	48E45 27N59	A20	0.1	−10.0				A	15	4	0100—2400	24
3			CANBERRA ACT	AUS	149E07 35S13	A20	10	12.1				A	40	3	2000—1400	
4			BANGUI	CAF	18E35 04N22	C 9	100	20.4				A	52	3	0400—2300	
5		S	AR HORQIN QI	CHN	120E05 43N52	A20	20	13.4				A	50	4	2000—1800	
6		S	CHIFENG SHI	CHN	118E52 42N18	A20	10	10.4				A	50	4	2000—1800	
7		S	HE XIAN	CHN	111E39 24N28	A20	20	13.4				A	50	4	2000—1800	
8		S	LINGSHAN	CHN	109E17 22N25	A20	20	13.4				A	50	4	2000—1800	
9		S	LIUZHOU	CHN	109E12 24N18	A20	50	17.4				A	50	4	2000—1800	
10		S	LONGLIN	CHN	105E27 24N43	A20	20	13.4				A	50	4	2000—1800	
11		S	PINGGUO	CHN	107E33 23N19	A20	20	13.4				A	50	4	2000—1800	
12		S	PINGNAN	CHN	110E24 23N33	A20	20	13.4				A	50	4	2000—1800	
13		S	QUANZHOU 2	CHN	111E04 25N56	A20	20	13.4				A	50	4	2000—1800	
14			ICOD	CNR	16W45 28N20	A20	2	3.4				A	40	5	0000—2400	
15			BALE GOBA	ETH	40E00 07N00	C 9	10	10.4				A	52	3	0400—2100	
16			AHMEDABAD	IND	72E38 23N02	A20	10	12.1				A	110	3	0000—2400	
17			KANPUR 1	IND	80E19 26N28	A20	20	15.1				A	105	3	0300—0900	25
18			KANPUR 2	IND	80E19 26N28	A20	10	12.1				A	105	3	0900—0300	
19			KURSEONG	IND	88E19 26N55	A20	5	7.0				A	40	4	0000—2400	
20			PT BLAIR 1	IND	92E43 11N40	A20	20	15.1				A	105	4	0300—1000	25
21			PT BLAIR 2	IND	92E43 11N40	A20	10	12.1				A	105	4	1000—0300	
22			PUTTUR	IND	75E12 12N42	A20	20	15.1				A	105	4	0300—1000	25
23			RATNAGIRI	IND	73E22 17N00	A20	20	15.1				A	105	4	0300—1000	25
24			TAWANG	IND	91E54 27N36	A20	20	15.1				A	105	4	0300—0900	25
25			TIRUCHIRAPALLI	IND	78E46 10N50	A20	20	15.1				A	105	3	0300—1000	25
26			YAMIT	ISR	34E20 31N10	D 9	30	20.0	210			B		1	0000—2400	33
27		S	MURORAN	J	140E59 42N19	A15	0.1	−9.6				A	50	5	0000—2400	
28		S	NAYORO	J	142E26 44N21	A15	0.1	−9.6				A	50	5	0000—2400	
29		S	SAPPORO	J	141E28 43N07	A15	50	17.6				A	81	4	0000—2400	
30			KUNSAN	KOR	126E37 35N55	C10	1	0.4				A	39	4	0000—2400	
31			MASAN	KOR	128E33 35N10	C10	0.3	−5.2				A	9	4	0000—2400	
32			PYEONGTAEG	KOR	127E01 36N57	C10	1	0.4				A	54	4	0000—2400	
33			WEONJU	KOR	127E57 37N22	C10	0.3	−5.2				A	18	6	0000—2400	
34			NAMPO	KRE	125E22 38N49	A16	100	24.0				B		5	2000—1800	
35			MARNACH	LUX	06E04 50N02	D 9	1200	37.0	45	95—345	28.0	B		4	0500—1900	
36			MARNACH	LUX	06E04 50N02	D 9	1200	31.0	320	110—170	23.0	B		4	1900—0500	
37			TEMERLOH	MLA	102E32 03N31	A20	20	15.1				A	100	5	0000—2400	
38			DALANTSZADAGAD	MNG	104E30 43N38	A18	25	17.4				A	120	4	2200—1500	
39		S	ALEG	MTN	13W54 17N03	B20	1	0.4				A	50		0600—2400	24
40		S	BOUTILIMIT	MTN	14W40 17N30	B20	1	0.4				A	50		0600—2400	24
41		S	MBOUT	MTN	12W37 16N02	B20	1	0.4				A	50		0600—2400	24
42		S	TAMCHAKETT	MTN	10W40 17N13	B20	1	0.4				A	50		0600—2400	24
43		S	TIDJIKJA	MTN	11W25 18N33	B20	1	0.4				A	50		0600—2400	24
44		S	TIMBEDRA	MTN	08W12 16N16	B20	1	0.4				A	50		0600—2400	24
45			JALINGO	NIG	11E22 08N50	C 9	50	19.1				A	100	4	0500—2300	
46			HAMILTON	NZL	175E20 37S48	A20	2	3.4				A	50	3	0000—2400	
47			GILGIT	PAK	73E12 35N55	A20	10	10.6				A	70	4	0000—2000	
48			TANAUAN BAT	PHL	121E10 14N05	C 9	1	0.6				A	64	3	2100—1600	
49		S	ALOTAU	PNG	150E20 10S18	B10	10	10.6				A	80	5	1900—1300	
50		S	WANIGELA	PNG	149E11 09S51	B10	10	10.6				A	80	3	1900—1300	
51			KIGOMA	TGK	29E40 05S00	C 9	100	20.4				A	52	4	0300—2100	
52			BANGKOK	THA	100E33 13N43	A20	10	10.4				A	52	2	0000—2400	
53			SAMUT SAKHON	THA	100E18 13N40	A20	10	10.4				A	52	2	0000—2400	
54			CARSAMBA	TUR	36E44 41N11	D 9	100	24.0	90	180—360	5.0	B		4	0200—2300	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station		Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1449		JEDDAH	ARS	39E09	21N14	C10	500	32.0	130	260—360	18.0	B		3	0000—2400	24
2	(103)		MUDGEE NSW	AUS	149E35	32S35	A20	5					B		4	1900—1400	
3			HORTA	AZR	28W36	38N32	A20	10	10.0				A	60	4	0000—2400	
4			PONAPE	CAR	158E20	07N01	C10	1	0.6				A	64	2	1900—1300	
5		S	ANYUAN	CHN	115E24	25N09	A20	10	10.4				A	50	4	2000—1800	
6			CHANGCHUN	CHN	125E24	43N48	A20	10	10.4				A	50	4	2000—1800	
7		S	FUHAI	CHN	87E45	47N00	A20	1	0.4				A	50	4	2000—1800	
8		S	FUYUN	CHN	89E33	47N00	A20	10	10.4				A	50	4	2000—1800	
9		S	HOTAN	CHN	80E02	37N00	A20	10	10.4				A	50	4	2000—1800	
10		S	JIUJIANG SHI	CHN	116E10	29N39	A20	20	13.4				A	50	4	2000—1800	
11		S	KASHI	CHN	76E00	39N25	A20	10	10.4				A	50	4	2000—1800	
12		S	NINGGANG	CHN	113E58	26N46	A20	10	10.4				A	50	4	2000—1800	
13		S	RUOQIANG	CHN	88E10	39N00	A20	10	10.4				A	50	4	2000—1800	
14		S	SHANGRAO SHI	CHN	118E15	28N20	A20	20	13.4				A	50	4	2000—1800	
15		S	TACHENG	CHN	83E05	46N45	A20	10	10.4				A	50	4	2000—1800	
16		S	TURPAN	CHN	89E02	42N53	A20	10	10.4				A	50	4	2000—1800	
17		S	XINGGUO	CHN	115E21	26N20	A20	10	10.4				A	50	4	2000—1800	
18		S	XINHE	CHN	82E40	41N25	A20	10	10.4				A	50	4	2000—1800	
19		S	YICHUN 1	CHN	114E25	27N48	A20	20	13.4				A	50	4	2000—1800	
20		S	YINING SHI	CHN	81E28	43N55	A20	10	10.4				A	50	4	2000—1800	
21		S	YIWU	CHN	94E40	43N20	A20	1	0.4				A	50	4	2000—1800	
22			BAFOUSSAM	CME	10E25	05N27	C 9	100	22.1				A	103	4	0500—2300	
23			BERLIN 1	D	13E14	52N30	D 9	5	10.4				A	120	5	0000—2400	
24			REDMOSS	G	02W05	57N07	A20	2	3.6				A	76	5	0000—2400	
25			GOLFO BARATTI	I	10E32	43N08	D 9	300	31.8	312	158	23.3	B		2	0000—2400	
26			ALLEPPEY	IND	76E23	09N30	A20	20	15.1				A	105	4	0300—1000	25
27			JULLUNDUR	IND	75E18	31N19	A20	20	15.1				A	105	3	0300—0900	25
28			PARBHANI	IND	76E50	19N08	A20	20	15.1				A	105	3	0300—1000	25
29			ROURKELA	IND	85E00	22N12	A20	20	15.0				A	105	4	0000—2400	
30			TURA	IND	90E12	25N36	A20	20	15.1				A	105	3	0300—0900	25
31			BENGKULU	INS	102E20	03S46	A18	5	7.4				A	52	4	2200—1700	
32			SAMARINDA	INS	117E09	00S30	A18	10	10.6				A	60	4	2100—1600	
33			WATERFORD	IRL	07W08	52N16	A20	2	3.4				A	50	4	0000—2400	
34			BANDAR SHAH	IRN	54E05	36N54	A20	400	29.0	70	200—310		B		2	0100—2200	
35			ABASHIRI	J	144E15	44N00	A15	5	10.4				A	122	4	0000—2400	
36			ISAHAYA	J	130E00	32N50	A15	0.1	−9.6				A	50	5	0000—2400	
37			TAKAMATSU	J	134E05	34N19	A15	5	7.6				A	67	4	0000—2400	
38			AMMAN	JOR	35E53	31N54	C 9	10	12.1				A	90	6	1300—2300	24
39			MERU	KEN	37E37	00N05	C 9	20	15.1				A	100	4	0000—2400	
40			ULSAN	KOR	129E29	35N28	C10	10					B		4	0000—2400	
41			CHANGDO	KRE	127E47	38N22	A16	1	0.4				A	30		2000—1800	
42			MISURATA	LBY	15E05	32N46	D 9	20	18.0	160	280— 40	8.0	B		4	0400—2200	24
43			KAYES	MLI	11W27	14N27	C 9	30	16.9				A	103		0600—2400	
44			SUHE BATOR 2	MNG	113E10	46N50	A18	5	10.4				A	120	4	2200—1500	
45			KAFUKULE	MWI	33E50	10S36	A20	2	5.1				A	92	3	0200—2300	
46			PALMERSTON NO	NZL	175E34	40S21	A20	5	7.4				A	55	4	0000—2400	
47			KARACHI	PAK	67E04	24N51	A20	10	10.4				A	52	4	0000—2000	
48			S CARLOS NEG	PHL	123E25	10N29	C 9	1	0.6				A	64	3	2100—1600	
49			SAFOTU	SMO	172W21	13S26	A20	2	3.4				A	50	6	0000—2400	
50			GARBA HARLEY	SOM	42E20	03N10	A18	10	10.4				A	55	4	0300—2100	
51		S	LOPBURI	THA	100E54	14N53	A20	5	7.0				A	20	5	0000—2400	
52		S	NARATHIWAT	THA	101E48	06N25	A20	10	10.6				A	75	3	0000—2400	
53			KALININ	URS	36E11	56N51	A16	30	18.2				A	120	4	0000—2400	

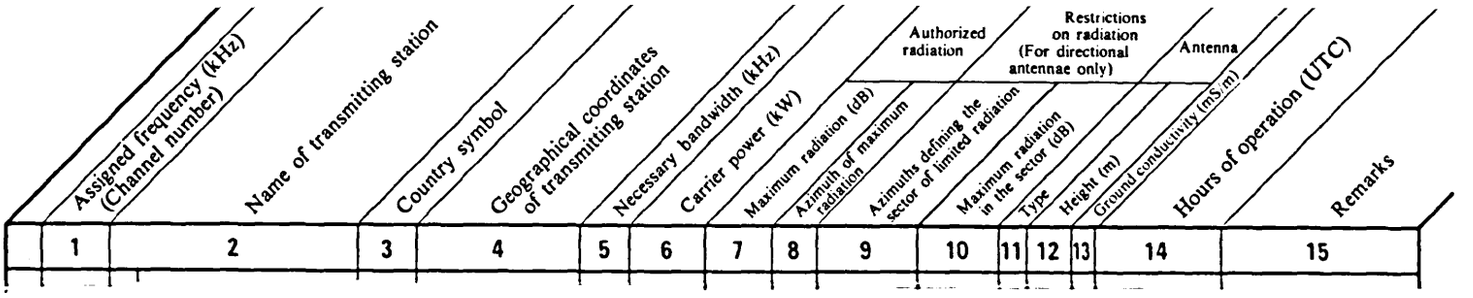


1440 KHZ (102)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1440	CARSAMBA	TUR	36E44 41N11	D 9	100	24.0		0— 50	15.0	B				
2	(102)	URALSK	URS	51E19 51N14	A18	50	20.4				A	120	4	0000—2400	
3		BANJA LUKA	YUG	17E11 44N50	D 9	2	5.1				A	90	3	0800—1500	7
4		SVETOZAREVO	YUG	21E20 43N53	D 9	100	20.6				A	75	3	0500—1800	7
5		SVETOZAREVO	YUG	21E20 43N53	D 9	10	10.6				A	75	3	1800—0500	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1449	S	KANDALAKCHA	URS	32E26 67N08	A18	5	10.4				A	120	5	0000—2400	
2	(103)		KICHINIOV	URS	28E52 47N00	A16	50	20.4				A	120	4	0000—2400	
3			S ANADYR	URS	177E23 64N44	A18	5	10.4				A	120	4	0000—2400	
4		S	TAMBOV	URS	41E05 52N44	A18	5	10.4				A	120		0000—2400	
5			KARLOVAC	YUG	15E33 45N27	D 9	10	10.4				A	55	3	0800—1500	
6			KARLOVAC	YUG	15E33 45N27	D 9	1	0.4				A	55	3	1500—0800	
7			SRBOBRAN	YUG	19E48 45N33	D 9	0.2	−7.4				A	48	3	0800—1500	7
8			KINSHASA	ZAI	15E15 04S20	C 9	2	3.4				A	50	8	0000—2400	
9			SAKANIA	ZAI	27E59 12S28	C 9	1	0.6				A	60	8	0000—2400	



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1458	LUSHNJE	ALB	19E40 40N57	C 9	500	29.1				A	103	5	0300—2400	23/ROU
2	(104)	JEDDAH	ARS	39E09 21N14	C 9	20	16.4				A	120	3	0400—1400	24
3		MURRAY BRDG SA	AUS	139E15 35S07	A20	5	7.4				A	52	2	1900—1400	
4		MUSWELLBRK NSW	AUS	150E54 32S14	A20	5	7.4				A	52	4	1900—1400	
5		NEUBERG MUERZ	AUT	15E34 47N40	D 9	0.1	−10.0				A	15	6	0000—2400	
6	S	HUHHOT	CHN	111E30 41N12	A20	100	22.1				A	100	4	2000—1800	
7	S	NUNGNIN SUM	CHN	118E58 45N40	A20	20	13.4				A	50	4	2000—1800	
8		SOUANKE	COG	14E00 02N00	A20	2	3.4				A	51		0000—2400	
9		DESSIE	ETH	39E11 11N00	C 9	150	23.9				A	100	3	0400—2300	
10		BROOKMANS PARK	G	00W11 51N44	A20	50	21.0	158			B		3	0000—2400	
11		LANGLEY MILL	G	01W46 52N34	A20	7	14.1	215			B		3	0000—2400	
12		MANCHESTER	G	02W08 53N29	A20	5	12.0	280			B		3	0000—2400	
13		NEWCASTLE	G	01W34 54N56	A20	2	3.4				A	46	3	0000—2400	
14		TORBAY	G	03W35 50N28	A20	1	0.3				A	45	4	0000—2400	
15		WHITEHAVEN	G	03W35 54N32	A20	0.5	−2.6				A	30	4	0000—2400	
16		WELLINGTON FT	GIB	05W21 36N08	A20	2	3.4				A	40		0700—2300	
17		SIGUIRI	GUI	09W10 11N25	C 9	40	16.4				A	54	4	0000—2400	
18		BARMER	IND	71E18 25N45	A20	20	15.1				A	100	4	0000—2400	
19		BHAGALPUR 1	IND	87E02 25N15	A20	20	15.1				A	105	3	0300—0900	25
20		BHAGALPUR 2	IND	87E02 25N15	A20	10	12.1				A	105	3	0900—0300	
21		IMPHAL	IND	93E58 24N44	A20	20	15.1				A	105	3	0300—0900	25
22		MANGALORE 1	IND	74E48 12N48	A20	20	15.1				A	105	4	0300—1000	25
23		MANGALORE 2	IND	74E48 12N48	A20	10	12.1				A	105	4	1000—0300	
24		REWA	IND	81E25 24N31	A20	20	15.1				A	105	4	0300—0900	25
25		EZYON	ISR	34E57 29N35	D 9	50	22.0	200			B		1	0000—2400	33
26		FUKUSHIMA	J	140E30 37N46	A15	5	7.6				A	62	5	0000—2400	
27		KAMIOKA	J	137E18 36N19	A15	0.1	−9.6				A	50	5	0000—2400	
28		KOBAYASHI	J	130E57 32N00	A15	0.1	−9.4				A	67	5	0000—2400	
29		SAGA	J	130E17 33N15	A15	1	0.6				A	63	5	0000—2400	
30		SAKU	J	138E29 36N17	A15	0.1	−7.9				A	85	5	0000—2400	
31		TOJO	J	133E17 34N54	A15	0.1	−9.6				A	50	5	0000—2400	
32		TSUCHIURA	J	140E11 36N04	A15	1	2.1				A	88	4	0000—2400	
33		YAMAGUCHI	J	131E28 34N09	A15	0.1	−9.6				A	50	5	0000—2400	
34		BONGHWHA	KOR	128E43 36N52	C10	1	0.6				A	80	4	0000—2400	
35		HAMYANG	KOR	127E43 35N31	C10	1	0.6				A	80	4	0000—2400	
36		KYEONGJU	KOR	129E15 35N47	C10	1	0.6				A	80	4	0000—2400	
37		PYONGSAN	KRE	126E24 38N20	A16	1	0.4				A	30		2000—1800	
38		GAO	MLI	00W03 16N17	C 9	200	25.1				A	103		0600—2400	
39		MAYOTTE 1	MYT	45E14 12S45	A20	100	20.4				A	50	4	0000—2400	
40		WESTPORT	NZL	171E28 41S51	A20	2	3.4				A	50	6	0000—2400	
41		IBA ZAMBALES	PHL	119E57 15N22	D 9	250	31.0	160	90—255	7.0	B		3	0000—2400	
42	S	BAIYER RIVER	PNG	144E10 05S32	B10	2	3.4				A	30	5	1900—1300	
43	S	MT HAGEN	PNG	144E18 05S50	B10	10	10.6				A	80	5	1900—1300	
44	S	TABIBUGA	PNG	144E38 05S33	B10	2	3.4				A	30	5	1900—1300	
45		CONSTANTZA	ROU	28E38 44N04	A20	100	22.1				A	100	4	0000—2400	
46		PHUKET	THA	98E22 07N50	A20	10	10.4				A	50	3	0000—2400	
47		SISAKET	THA	104E20 15N06	A20	10	10.6				A	60	4	0000—2400	
48		JDANOV	UKR	37E31 47N06	A18	5	10.4				A	120	4	0000—2400	
49	S	KAUNAS	URS	23E40 55N31	A18	5	10.4				A	120	4	0000—2400	
50	S	LUGA	URS	29E50 58N44	A18	5	10.4				A	120	4	0000—2400	
51	S	MEDVEJIEGORSK	URS	34E24 62N56	A18	5	10.4				A	120	4	0000—2400	
52	S	MINVODY	URS	43E09 44N13	A18	5	10.4				A	120	4	0000—2400	
53	S	RIGA	URS	24E01 56N57	A18	5	10.4				A	120	4	0000—2400	
54	S	SALSK	URS	41E36 46N31	A18	5	10.4				A	120	4	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1458 KHZ (104)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1458	S	SISIAN	URS	46E45 39N13	A18	5	10.4				A	120	4	0000—2400	
2	(104)	S	TIKHVIN	URS	33E30 59N40	A18	5	10.4				A	120	4	0000—2400	
3		S	VALUIKI	URS	38E08 50N12	A18	5	10.4				A	120	4	0000—2400	
4		S	VLADIMIR	URS	40E23 56N08	A18	5	10.4				A	120	4	0000—2400	
5			KRALJEVO	YUG	20E42 43N44	D 9	10	10.4				A	45	4	0500—1800	7
6			VALPOVO	YUG	18E26 45N40	D 9	1	0.6				A	50	3	0800—1500	7
7			NDOLA	ZMB	28E40 13S00	A20	2	6.4				A	129	4	0200—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1467		MILDURA VIC	AUS	142E07 34S11	A20	5	7.4				A	55	2	1900—1400	
2	(105)		MOREE NSW	AUS	149E30 29S00	A20	10	10.4				A	50	3	1900—1400	
3		S	CHANGTING	CHN	116E18 25N50	A20	10	10.4				A	50	4	2000—1800	
4			CHENGDU	CHN	104E00 30N42	A20	50	17.4				A	50	4	2000—1800	
5		S	FUAN	CHN	119E33 27N11	A20	10	10.4				A	50	4	2000—1800	
6		S	JIANYANG	CHN	118E08 27N20	A20	50	17.4				A	50	4	2000—1800	
7		S	QUANZHOU	CHN	118E33 24N53	A20	20	13.4				A	50	4	2000—1800	
8			SOHAG	EGY	31E43 26N27	D 9	20	15.1				A	100	4	0000—2400	24
9			RAKIRAKI	FJI	178E09 17S22	A20	2.5	4.4				A	30	5	1700—1200	
10			MEKAMBO	GAB	13E56 01N00	C 9	10	12.1				A		5	0400—2400	
11			BOLGATANGA	GHA	00W52 10N50	C 9	10	10.0				A	150	4	0500—2300	
12			DIBRUGARH	IND	94E58 27N29	A20	20	15.1				A	105	3	0300—0900	25
13			JALGAON	IND	75E31 20N55	A20	20	15.1				A	105	3	0300—0900	25
14			JEYPORE 1	IND	82E40 18N51	A20	300	26.9				A	105	4	0300—1000	25
15			JEYPORE 2	IND	82E40 18N51	A20	100	22.1				A	105	4	1000—0300	
16			TRICHUR	IND	76E15 10N35	A20	20	15.1				A	105	4	0300—1000	25
17			TANDJUNGPINANG	INS	104E28 00N55	A18	10	10.4				A	52	6	2200—1700	
18			ISFAHAN	IRN	51E40 32N37	A20	100	22.1				A	101	3	0100—2200	
19			AKUNE	J	130E12 32N01	A15	0.1	−9.4				A	67	5	0000—2400	
20			FUKUYAMA	J	133E21 34N30	A15	0.1	−9.4				A	71	5	0000—2400	
21			HAKODATE	J	140E46 41N49	A15	1	2.1				A	108	5	0000—2400	
22			HIROSAKI	J	140E27 40N37	A15	1	2.1				A	106	5	0000—2400	
23			MIYAZAKI	J	131E27 31N57	A15	1	2.1				A	106	4	0000—2400	
24			NAGANO	J	138E12 36N40	A15	1	2.1				A	102	5	0000—2400	
25			NANAO	J	137E00 37N02	A15	0.1	−7.9				A	109	4	0000—2400	
26			OITA	J	131E35 33N15	A15	1	2.1				A	108	5	0000—2400	
27			WAKKANAI	J	141E43 45N23	A15	1	0.6				A	67	4	0000—2400	
28			YUSUHARA	J	132E56 33N23	A15	0.1	−9.4				A	71	5	0000—2400	
29			CHONJU	KOR	127E03 35N54	C10	10	13.4				A	125	4	0000—2400	
30			YODOK	KRE	126E49 39N39	A16	1	0.4				A	30		2000—1800	
31			MONTE CARLO	MCO	07E25 43N47	D 9	1000	30.0	50	227—233	20.0	B		6	0000—2400	
32			FT DAUPHIN	MDG	46E59 25S01	C 9	5	9.1				A	95	4	0300—2000	
33		S	MUREN	MNG	100E10 49N30	A18	5	10.4				A	120	5	2200—1500	
34		S	TCHOIBOLSAN	MNG	114E30 48N05	A18	5	10.4				A	120	4	2200—1500	
35			NOUADHIBOU	MTN	17W03 20N50	B20	20	15.1				A	102		0600—2400	24
36			KARASBURG	NMB	18E45 28S01	A20	50	19.1				A	102	2	0000—2400	
37			WELLINGTON	NZL	174E48 41S18	A20	10	10.4				A	50	4	0000—2400	
38			MUNTI RIZAL	PHL	121E02 14N25	C 9	15	12.4				A	78	3	0000—2400	
39			MBEYA	TGK	33E30 09S00	C 9	100	20.0				A	175	4	0300—2100	
40			BANGKOK	THA	100E43 14N04	A20	100	23.0	270			B		2	0000—2400	
41			DEDEDORUK	TUR	32E47 39N58	D 9	10	10.4				A	43	4	0200—2300	
42		S	IALTA	UKR	34E10 44N39	A16	30	18.2				A	120	4	0000—2400	
43		S	KIEV	UKR	30E49 50N30	A16	300					B		4	1500—0100	22
44		S	FRUNZE	URS	74E30 42N54	C10	30	18.2				A	120	4	0000—2400	
45		S	MOSKVA	URS	37E38 55N45	A16	50	20.4				A	120	4	0000—2400	
46		S	OCH	URS	72E48 41N27	A16	15	15.2				A	120	4	0000—2400	
47		S	ORISSARE	URS	23E30 58N56	A18	5	10.4				A	120	4	0000—2400	
48			IMOTSKI	YUG	17E15 43N27	D 9	10	10.4				A	50	4	0800—1500	
49			KLJUC	YUG	16E49 44N33	D 9	0.1	−9.4				A	40	5	0800—1500	7
50			LUDBREG	YUG	16E36 46N15	D 9	0.1	−9.4				A	40	3	0800—1500	7
51			ZRENJANIN	YUG	20E25 45N21	D 9	2	3.6				A	60	3	0800—1500	
52			ZVORNIK	YUG	19E06 44N23	D 9	10	10.6				A	60	4	0000—2400	
53			BUMBA	ZAI	22E27 00N11	C 9	1	0.6				A	60	8	0000—2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1476		DHAHRAN	ARS	50E06 26N18	A20	0.1	−9.6				A	38	3	0100−2400	
2	(106)		PENRITH NSW	AUS	150E39 33S44	A20	0.3	−6.0				A	30	3	1900−1400	
3			ROMA QLD	AUS	148E49 26S34	A20	5	7.4				A	52	2	1900−1400	
4			WIEN BISAMBERG	AUT	16E23 48N19	D 9	1200	34.2				A	120	4	0000−2400	
5			BUJUMBURA	BDI	29E30 03S25	C 9	1	0.4				A	51	4	0300−2400	
6			COTONOU	BEN	02E28 06N22	C10	50	17.4				A	51	4	0500−2400	
7			BEIJING	CHN	116E27 39N57	A20	20	13.4				A	50	4	2000−1800	
8			HUANGSHI	CHN	115E06 30N13	A20	10	10.4				A	50	4	2000−1800	
9			WENCHENG	CHN	120E06 27N47	A20	200	23.0	210	340− 80	19.0	B		4	2000−1800	
10			MPIAKA BRAZZA	COG	15E18 04S15	A20	50	19.1				A	102		0000−2400	
11		S	ALBACETE	E	01W52 39N00	D 9	2	3.4				A	50	4	0000−2400	
12		S	ALMERIA	E	02W27 36N50	D 9	2	3.4				A	50	4	0000−2400	
13		S	BARCELONA	E	02E10 41N25	D 9	25	14.4				A	40	5	0000−2400	19
14		S	BILBAO	E	02W54 43N16	D 9	10	10.4				A	80	5	0000−2400	
15		S	CORDOBA	E	04W51 37N54	D 9	5	7.4				A	40	3	0000−2400	
16		S	GIJON	E	05W35 43N31	D 9	2	3.4				A	40	5	0000−2400	
17		S	ORENSE	E	07W51 42N19	D 9	2	3.4				A	50	5	0000−2400	
18		S	SORIA	E	02W30 41N45	D 9	5	7.4				A	40	5	0000−2400	19
19		S	TOLEDO	E	04W01 39N52	D 9	2	3.4				A	40	4	0000−2400	
20		S	UBEDA	E	03W20 38N00	D 9	5	7.4				A	40	4	0000−2400	19
21		S	ZAMORA	E	05W45 41N30	D 9	5	7.4				A	40	4	0000−2400	19
22		S	ASSWAN	EGY	32E57 24N04	D 9	10	12.1				A	100	3	0000−2400	
23		S	ASYUT	EGY	31E04 27N11	D 9	10	12.1				A	100	3	0000−2400	
24		S	KENA	EGY	32E43 26N10	D 9	10	12.1				A	100	3	0000−2400	
25			ASMARA	ETH	38E56 15N21	C 9	10	10.4				A	50	3	0400−2100	
26			KINDIA	GUI	13W15 10N02	C 9	100	20.4				A	51	4	0000−2400	
27			BHADRAVATI	IND	75E36 13N53	A20	20	15.1				A	105	3	0300−1000	25
28			JAIPUR	IND	75E50 26N54	A20	20	16.0	150	325−335	0.0	B		4	0000−2400	
29			ROURKELA	IND	85E00 22N12	A20	20	15.1				A	105	4	0300−0900	25
30			VARANASHI	IND	83E00 25N20	A20	20	15.1				A	105	3	0300−0900	25
31			SURAKARTA	INS	110E50 07S32	A18	50	19.1				A	100	5	2200−1700	
32			SANANDAJ	IRN	47E00 35N20	A20	20	13.4				A	51	3	0100−2200	
33			IIDA	J	137E51 35N30	A15	1	2.1				A	102	5	0000−2400	
34			OZU	J	132E34 33N31	A15	0.1	−9.4				A	74	5	0000−2400	
35			MILYANG	KOR	128E45 35N23	C10	1	0.6				A	80	4	0000−2400	
36			KUJANG	KRE	126E02 39N51	A16	1	0.4				A	30		2000−1800	
37			TUARAN	MLA	116E11 06N11	A20	600					B		5	2200−1700	
38			ALTAI	MNG	96E10 46N30	A18	5	10.4				A	120	5	2200−1500	
39			JOAO BELO	MOZ	33E38 25S02	C10	10	10.4				A	54	4	0400−2200	
40			POTISKUM	NIG	11E02 11N50	C 9	50	19.1				A	100	4	0500−2300	
41			AUCKLAND	NZL	174E46 36S57	A20	5	10.0	70	180−300	3.0	B		3	0000−2400	
42			SARGODHA	PAK	73E00 32N00	A20	10	10.4				A	51	3	0000−2000	
43			CAL MINDORO	PHL	121E10 13N24	C 9	5	7.6				A	63	3	0000−2400	
44			BIHARAMULO	TGK	31E30 03S00	C 9	20	15.1				A	107	4	0300−2100	
45			MAHENGE	TGK	36E42 06S42	C 9	20	16.4				A	134	4	0300−2100	
46			LAMPHUN	THA	99E02 18N34	A20	100	22.1				A	108	5	0000−2400	
47			DUBAI	UAE	55E16 25N14	C 9	600	29.9				A	100	5	0200−2100	
48			LVOV	UKR	24E00 49N50	A16	120	24.2				A	120	4	0400−1700	2/0104/3009
49			LVOV	UKR	24E00 49N50	A16	120	24.2				A	120		0530−1500	2/0110/3103
50			BAKU	URS	49E45 40N24	A16	25	17.4				A	120	4	0000−2400	
51			VLADIVOSTOK	URS	131E53 43N07	C 9	100	24.0	80	260−270	10.0	B		4	0000−2400	
52			ZAMBEZI	ZMB	23E07 13S32	A20	10	12.1				A	103	4	0200−2100	

1485 kHz (107) Canal pour émetteurs de faible puissance – voir l'appendice 1
Low-power channel – see Appendix 1
Canal para transmisores de baja potencia – véase el apéndice 1

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1494		PRENJAS	ALB	20E31 41N04	A20	1	0.4				A	50	4	0400—2300	
2	(108)		ALBURY NSW	AUS	146E58 36S03	A20	5	7.4				A	54	3	1900—1400	
3			LORD HOWE IS	AUS	159E09 31S28	A20	0.1	−10.0				A	30	2	1900—1400	
4			BOGRA	BGD	89E21 24N52	A20	2	6.4				A	122	3	0000—1800	
5			PAOUA	CAF	16E26 07N15	C 9	5	10.4				A	131	5	0400—2300	
6			YAP ISLAND	CAR	138E07 09N31	A10	10	10.4				A	60	1	2000—1400	
7		S	AKSU	CHN	80E19 41N03	A20	10	10.4				A	50	4	2000—1800	
8		S	ALTAY	CHN	88E18 47N50	A20	10	10.4				A	50	4	2000—1800	
9		S	BOLE	CHN	82E08 44N54	A20	10	10.4				A	50	4	2000—1800	
10		S	HAMI	CHN	93E20 42N50	A20	10	10.4				A	50	4	2000—1800	
11		S	KARAMAY	CHN	85E00 45N32	A20	10	10.4				A	50	4	2000—1800	
12		S	KORLA	CHN	86E10 41N44	A20	10	10.4				A	50	4	2000—1800	
13		S	PUTIAN	CHN	119E01 25N25	A20	10	10.4				A	50	4	2000—1800	
14		S	SANMING	CHN	117E36 26N14	A20	100	22.1				A	100	4	2000—1800	
15		S	SONGZHENG	CHN	118E45 27N32	A20	10	10.4				A	50	4	2000—1800	
16			TONGLIAO SHI	CHN	122E13 43N40	A20	100	22.1				A	100	4	2000—1800	
17		S	WUPING	CHN	116E06 25N05	A20	10	10.4				A	50	4	2000—1800	
18		S	YECHENG	CHN	77E22 37N55	A20	20	13.4				A	50	4	2000—1800	
19		S	ZHANGZHOU	CHN	117E40 24N30	A20	50	17.4				A	50	4	2000—1800	
20			S CRUZ DEPALMA	CNR	17W45 28N40	A20	5	7.4				A	40	5	0000—2400	
21			MINDELO	CPV	24W59 16N53	A18	10	10.4				A	40	6	1900—2400	
22			ABIDJAN	CTI	04W01 05N26	C 9	20	13.6				A	80	7	0600—2400	
23			DESSIE	ETH	39E37 11N00	C 9	10	10.4				A	50	3	0400—2100	
24		S	BASTIA	F	09E24 42N47	D 9	50	19.1				A	100	5	0000—2400	
25		S	BAYONNE	F	01W28 43N29	D 9	20	13.4				A	50	4	0000—2400	
26		S	BESANCON	F	06E02 47N15	D 9	20	13.4				A	50	5	0000—2400	
27		S	CAEN	F	00W30 49N08	D 9	20	15.1				A	100	3	0000—2400	
28		S	CLERMONT	F	03E13 45N55	D 9	20	15.1				A	96	4	0000—2400	
29		S	MONTPELLIER	F	03E51 43N39	D 9	20	16.4				A	120	3	0000—2400	
30		S	PORTO VECCHIO	F	09E12 41N30	D 9	20	16.4				A	120	6	0000—2400	
31			RHODOS	GRC	28E13 36N27	C 9	50	17.6				A	75	5	0400—2400	
32			DHARMSALA	IND	76E15 32N12	A20	20	15.1				A	105	3	0000—2400	
33			TRIVANDRUM 1	IND	76E59 08N29	A20	20	15.1				A	105	4	0300—1000	25
34			TRIVANDRUM 2	IND	76E59 08N29	A20	10	12.1				A	105	4	1000—0300	
35			UDIPI	IND	74E44 13N27	A20	20	15.1				A	105	3	0300—1000	25
36			MAKU	IRN	44E25 39N15	A20	20	13.6				A	61	3	0200—2100	
37		S	BIZEN	J	134E14 34N50	A15	0.1	−9.6				A	40	5	0000—2400	
38		S	KASAOKA	J	133E31 34N27	A15	0.1	−9.4				A	75	5	0000—2400	
39			NAYORO	J	142E29 44N21	A15	1	2.1				A	83	5	0000—2400	
40		S	NIIMI	J	133E29 34N59	A15	0.1	−9.4				A	60	5	0000—2400	
41		S	OCHIAI	J	133E46 35N03	A15	1	0.4				A	50	5	0000—2400	
42		S	OKAYAMA	J	133E50 34N39	A15	5	9.1				A	100	4	0000—2400	
43		S	TSUYAMA	J	134E01 35N04	A15	1	0.6				A	60	5	0000—2400	
44			AJLUN	JOR	35E47 32N25	C 9	10	12.1				A	90	6	0300—2300	
45			KITALE	KEN	34E58 01N01	C 9	5	9.1				A	100	4	0000—2400	
46			DONGCHANG	KRE	125E25 40N18	A16	1	0.4				A	30		2000—1800	
47			AITO	LBN	35E56 34N18	A20	10	10.0				A	20	4	0300—2400	
48			PT AMELIA	MOZ	40E31 12S57	C10	10	10.4				A	54	4	0400—2200	
49			ORANJEMUND	NMB	16E25 28S33	A20	5	9.1				A	100	4	0000—2400	
50			TAUPO	NZL	176E04 38S40	A20	2	3.4				A	50	7	0000—2400	
51			MEYCAUAYAN BUL	PHL	120E57 14N40	C 9	5	7.6				A	64	3	2100—1600	
52			OZAMIS CITY	PHL	123E49 08N09	C 9	1	0.6				A	62	3	2100—1600	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

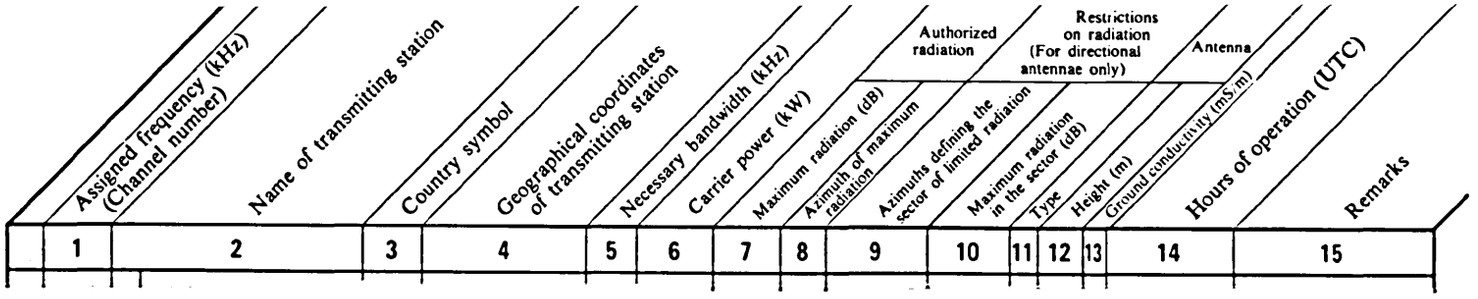
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1494	S	LAIAGAM	PNG	143E20 05S30	B10	2	3.4				A	30	5	1900—1300	
2	(108)	S	PORGERA	PNG	143E07 05S28	B10	2	3.4				A	30	5	1900—1300	
3		S	WABAG	PNG	143E44 05S19	B10	10	10.6				A	80	5	1900—1300	
4			TAGA	SMO	172W32 13S48	A20	2	3.6				A	60	6	0000—2400	
5			BO	SRL	11W55 07N55	C 9	20	13.4				A	40	2	0500—2400	
6			ARADA	TCD	20E37 15N01	C 9	1	0.4				A			0400—2300	
7			BANGKOK	THA	100E30 13N45	A20	25	14.4				A	48	2	0000—2400	
8		S	EDINTSY	URS	27E20 48N12	A16	25	17.4				A	120	4	0000—2400	
9		S	KAGUL	URS	28E14 47N55	A16	25	17.4				A	120	4	0000—2400	
10		S	LENINGRAD	URS	30E00 59N44	C 9	1000	33.4				A	120	4	0000—2400	
11			APATIN	YUG	18E59 45N38	D 9	0.2	−7.4				A	45	3	0800—1500	7

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1503		BENGUELA	AGL	13E25 12S35	C10	5	7.4				A	50	3	0500—2300	
2	(109)		MECCA	ARS	39E40 21N30	C 9	20	16.4				A	120	7	0400—1400	24
3			MECCA	ARS	39E40 21N30	C 9	10	13.4				A	120	7	1400—2300	24
4			BATHURST NSW	AUS	149E32 33S22	A20	5					B		4	0000—2400	
5			MELBOURNE VIC	AUS	145E06 37S45	A20	5					B		2	0000—2400	
6			LAJES	AZR	27W06 38N46	A20	0.3	−4.8				A		4	0000—2400	
7			BATANGAFO	CAF	18E18 07N18	C 9	10	10.4				A	49	5	0400—2300	
8		S	HANGZHOU	CHN	120E08 30N16	A20	100	22.1				A	100	4	2000—1800	
9			JINING	CHN	113E05 41N02	A20	10	10.4				A	50	4	2000—1800	
10		S	LISHUI	CHN	119E54 28N28	A20	20	13.4				A	50	4	2000—1800	
11		S	SHENGSI	CHN	122E27 30N44	A20	10	10.4				A	50	4	2000—1800	
12		S	XIANGSHAN	CHN	121E52 29N28	A20	10	10.4				A	50	4	2000—1800	
13			NGO	COG	15E45 02S29	A20	2	3.4				A	50	5	0000—2400	
14			NICOSIA	CYP	33E17 35N08	A20	1	0.4				A	50	5	0400—2200	11/G
15		S	AVILA	E	04W37 40N37	D 9	5	7.4				A	30	5	0000—2400	
16		S	BADAJOZ	E	07W00 38N50	D 9	5	9.0				A	98	4	0000—2400	19
17		S	BENAVENTE	E	05W39 41N51	D 9	2	3.4				A	50	5	0000—2400	
18		S	BILBAO	E	02W55 43N15	D 9	25	14.4				A	40	5	0000—2400	19
19		S	BURGOS	E	03W42 42N18	D 9	2	3.4				A	30	4	0000—2400	
20		S	CUENCA	E	02W08 40N04	D 9	2	3.4				A	50	4	0000—2400	
21		S	JAEN	E	03W47 37N46	D 9	2	3.4				A	50	4	0000—2400	
22		S	LUGO	E	07W34 42N59	D 9	2	3.4				A	60	5	0000—2400	
23		S	MARBELLA	E	04W54 36N30	D 9	2	3.4				A	30	5	0000—2400	
24		S	MONFORTE	E	07W30 42N30	D 9	5	7.4				A	40	5	0000—2400	19
25		S	PAMPLONA	E	01W38 42N50	D 9	2	3.4				A	60	5	0000—2400	
26		S	RONDA	E	05W10 36N45	D 9	5	7.4				A	40	5	0000—2400	19
27		S	SALAMANCA	E	05W40 41N00	D 9	5	7.4				A	40	5	0000—2400	19
28		S	TARRAGONA	E	01E15 41N10	D 9	5	7.4				A	40	4	0000—2400	19
29			ISMAILIA	EGY	32E18 30N35	D 9	20	16.0	180	260—270	8.0	B		3	0000—2400	24
30			STOKE ON TRENT	G	02W14 53N01	A20	1	0.4				A	49	3	0000—2400	
31			BHAWANI PATNA	IND	83E18 19N54	A20	20	15.1				A	100	3	0300—1000	25
32			ROHTAK	IND	76E27 28N56	A20	20	15.1				A	100	3	0300—0900	25
33			SRINAGAR 1	IND	74E49 34N04	A20	20	15.1				A	100	3	0300—0900	25
34			SRINAGAR 2	IND	74E49 34N04	A20	5	9.1				A	100	3	0900—0300	
35			VIJAYAWADA 1	IND	80E39 16N31	A20	20	15.1				A	100	3	0300—1000	25
36			VIJAYAWADA 2	IND	80E39 16N31	A20	5	9.1				A	100	3	1000—0300	
37			DJAMBI	INS	103E39 01S36	A18	10	10.6				A	58	3	2200—1700	
38			BUSHEHR	IRN	50E50 28N59	A20	100	24.0	150	200—290		B		3	0200—2100	
39			BUSHEHR	IRN	50E50 28N59	A20	100	24.0		20—110		B				
40			AKITA	J	140E05 39N47	A15	10	12.1				A	110	4	0000—2400	
41			MARALAL	KEN	36E40 01N05	C 9	5	9.1				A	100	4	0000—2400	
42			KIMCHEON	KOR	128E06 36N07	C10	1	0.6				A	60	6	0000—2400	
43			SHINPYONG	KRE	126E45 38N54	A16	1	0.4				A	30		2000—1800	
44		S	ABUGRAIN	LBY	15E15 31N27	D 9	10	10.4				A	50	4	0400—2200	24
45		S	GHAT	LBY	10E11 24N57	D 9	10	12.1				A	100	6	0400—2200	24
46		S	IMSAAD	LBY	23E28 31N36	D 9	10	10.4				A	50	4	0400—2200	24
47		S	ZELTEN	LBY	11E51 32N56	D 9	10	10.4				A	50	6	0400—2200	24
48			TANANARIVE	MDG	47E31 18S54	C 9	20	15.1				A	100	4	0300—2000	
49			MANDAL GOBI	MNG	106E10 45N40	A18	5	10.4				A	120	4	2200—1500	
50			KATMANDU	NPL	85E20 27N45	A20	50	17.4				A	50	4	2200—1900	
51			CHRISTCHURCH	NZL	172E38 43S29	A20	2	3.4				A	100	4	0000—2400	
52			CEBU CITY	PHL	123E52 10N16	C 9	1	0.6				A	62	3	2100—1600	

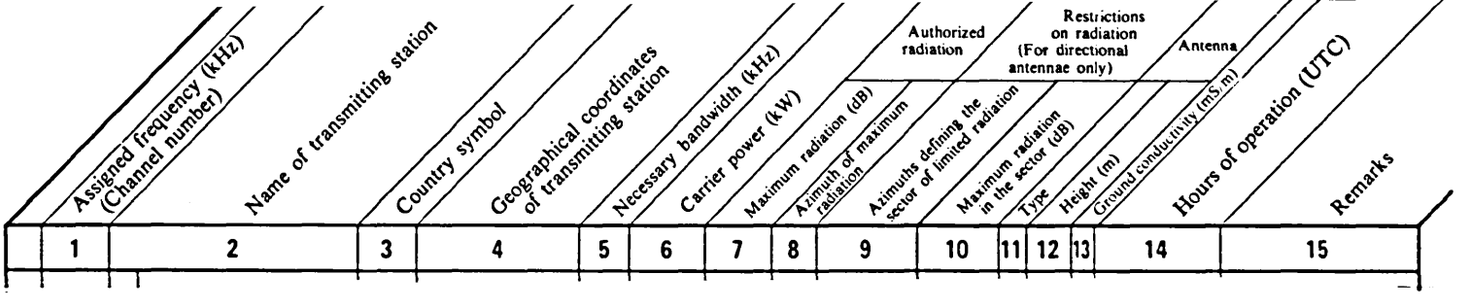
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks

1503 KHZ (109)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1503	S	ILAGAN ISABELA	PHL	121E52 17N08	C 9	1	0.6				A	62	3	2100—1600	
2	(109)	S	SANTIAGO ISA	PHL	121E32 16N41	C 9	5	7.6				A	62	3	2100—1600	
3			LORENGAU	PNG	147E16 02S02	B10	10	10.6				A	80	4	1900—1300	
4			STARGARD SZCZE	POL	15E07 53N18	D 9	1000	33.0	225	10— 90	30.0	B		4	0000—2400	
5			TAMBACOUNDA	SEN	13W41 13N47	C 9	20	15.1				A	100	4	0600—2400	
6			KISMAIO	SOM	42E33 00S22	A18	50	20.0	45			B		4	0300—2100	
7			PRINCIPE	STP	07E25 01N40	A20	1	0.4				A	50	3	0000—2400	
8			YADE	TGO	01E11 09N33	A20	10	10.4				A	50	5	0000—2400	
9			KHON KAEN	THA	102E48 16N50	A20	20	13.4				A	50	3	0000—2400	
10			SURAT THANI	THA	99E14 09N06	A20	10	10.4				A	42	3	0000—2400	
11		S	AIAGUZ	URS	79E59 47N50	A18	5	10.4				A	120	4	0000—2400	
12		S	ALMA ATA	URS	76E58 43N07	C10	10	13.4				A	120	4	0000—2400	
13		S	DUCHANBE	URS	68E49 38N34	A16	5	10.4				A	120		0000—2400	
14		S	KAFAN	URS	46E45 39N13	A18	5	10.4				A	120	4	0000—2400	
15		S	KUBA	URS	48E31 41N22	A18	5	10.4				A	120	4	0000—2400	
16		S	KZYL ORDA	URS	65E30 44N50	A18	5	10.4				A	120	4	0000—2400	
17			BEOGRAD 202	YUG	20E28 44N45	D 9	10	13.4				A	125	4	0000—2400	44
18			KUTINA	YUG	16E45 45N29	D 9	1	0.6				A	50	3	0800—1500	7
19			ULCINJ	YUG	19E13 41N55	D 9	10	10.6				A	60	2	0000—2400	
20			ZAVIDOVICI	YUG	18E06 44N28	D 9	1	0.6				A	50	4	0800—1500	7
21			PETAUKE	ZMB	31E15 14S15	A20	10	10.0				A	150	4	0200—1700	

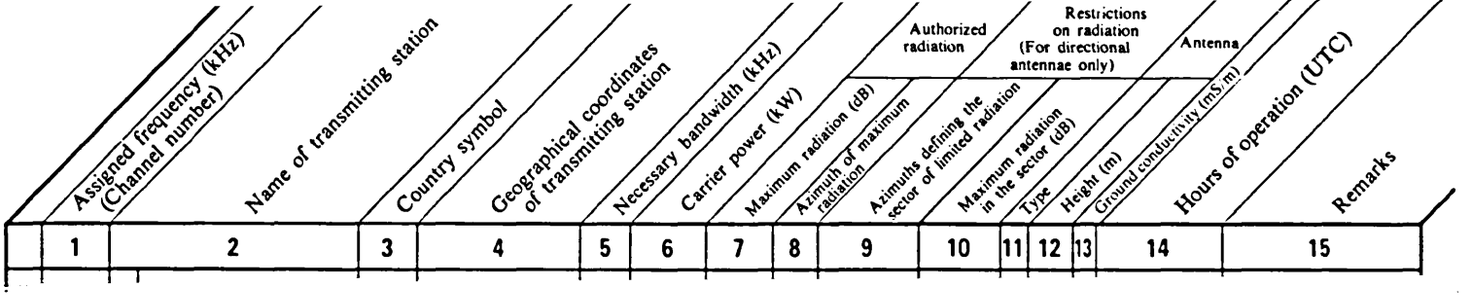


	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1512		JEDDAH	ARS	39E09	21N14	C10	1200	35.0	180	280— 80	15.0	B		3	1500—0300	24
2	(110)		NEWCASTLE NSW	AUS	151E40	32S48	A20	10	12.1				A	91	3	2000—1500	
3			S CRUZ FLORES	AZR	31W08	39N27	A20	1	0.0				A	50	4	0000—2400	
4			ANTWERPEN	BEL	04E32	51N18	D 9	600	29.9				A	100	4	0000—2400	
5		S	GAOXIONG SHI	CHN	120E18	22N36	A20	10	12.1				A	100	5	2000—1800	
6			HAILAR	CHN	119E45	49N02	A20	50	17.4				A	50	4	2000—1800	
7		S	TAIZHONG SHI	CHN	120E41	24N09	A20	100	20.0	220	0— 80	10.0	B		5	2000—1800	
8		S	YILAN	CHN	121E45	24N45	A20	50	17.4				A	50	5	2000—1800	
9			EBOLOWA	CME	11E00	02N51	C 9	30	16.9				A	99	5	0500—2300	
10			CHANIA	GRC	24E03	35N29	C 9	50	17.6				A	75	5	0400—2400	
11			LEO	HVO	02W06	11N05	A20	50	19.1				A	99	4	0000—2400	
12			GOALPARA	IND	90E40	26N13	A20	20	15.1				A	100	3	0000—2400	
13			GWALIOR	IND	78E10	26N14	A20	20	15.1				A	100	3	0300—0900	25
14			MERCARA	IND	75E42	12N24	A20	20	15.1				A	100	4	0300—1000	25
15			TUTICORIN	IND	78E12	08N48	A20	20	15.1				A	100	3	0300—1000	25
16			BUKITTINGGI	INS	100E20	00S17	A18	10	10.4				A	33	5	2200—1700	
17			JERUSALEM	ISR	35E13	31N46	D 9	20	13.6				A	70	3	0000—2400	33
18			IWAMI	J	132E26	34N53	A15	0.1	−9.4				A	71	5	0000—2400	
19			KOMAGANE	J	137E56	35N43	A15	0.1	−9.4				A	71	5	0000—2400	
20			KORIYAMA	J	140E21	37N21	A15	1	2.1				A	109	5	0000—2400	
21			KUSHIMA	J	131E14	31N28	A15	0.1	−9.4				A	71	5	0000—2400	
22			MATSUMOTO	J	137E57	36N13	A15	1	2.1				A	108	5	0000—2400	
23			MATSUYAMA	J	132E44	33N49	A15	5	10.0	180			B		5	0000—2400	
24			SASEBO	J	129E42	33N08	A15	0.5	−0.9				A	106	5	0000—2400	
25			TSURUGA	J	136E03	35N39	A15	0.1	−9.4				A	67	5	0000—2400	
26			GWANGCHEON	KOR	126E38	36N30	C10	0.1	−10.0				A	11	4	0000—2400	
27			JINHAE	KOR	128E39	35N07	C10	0.1	−10.0				A	18	4	0000—2400	
28			POHANG	KOR	129E23	36N03	C10	0.3	−5.2				A	9	4	0000—2400	
29			KILJU	KRE	129E21	40N57	A16	30	17.8				B		6	2000—1800	
30			BAIANHONGOR	MNG	100E40	46N10	A18	5	10.4				A	120	5	2200—1500	
31			TAUMARUNUI	NZL	175E16	38S53	A20	1	0.4				A	40	5	0000—2400	
32			RAHIMYAR KHAN	PAK	70E20	28N25	A20	100	20.6				A	70	4	0000—2000	
33		S	ANGELES CITY	PHL	120E33	15N11	C10	1	0.4				A	46	3	0100—2400	
34			LIPA BATANGAS	PHL	121E09	13N56	C 9	1	0.6				A	61	3	2100—1600	
35		S	S ANTONIO	PHL	120E03	14N57	C10	0.3	−1.8				A	122	3	0100—2400	
36			KIGALI	RRW	30E04	01S57	C 9	100	22.1				A			0300—2100	
37			S LOUIS	SEN	16W29	16N00	C 9	20	15.1				A	100	4	0600—2400	
38			CHIANG RAI	THA	99E55	19N05	A20	10	10.4				A	50	5	0000—2400	
39		S	KIEV	UKR	30E49	50N30	A16	5	10.4				A	120	4	0000—2400	
40			AKTIUBINSK	URS	57E13	50N17	C10	100	23.4				A	120	4	0000—2400	
41		S	MILLEROVO	URS	40E22	48N55	A18	5	10.4				A	120	4	0000—2400	
42		S	MOROZOVSK	URS	41E50	48N21	A18	5	10.4				A	120	4	0000—2400	
43		S	SOTCHI	URS	39E23	43N35	A16	30	18.2				A	120	4	0000—2400	
44		S	STARYI OSKOL	URS	37E49	51N17	A18	5	10.4				A	120	4	0000—2400	
45		S	TALLIN	URS	24E50	59N18	A16	30	18.2				A	120	4	0000—2400	
46			PRISTINA 2	YUG	21E07	42N40	D 9	100	20.6				A	60	4	0700—1400	
47			PRISTINA 2	YUG	21E07	42N40	D 9	20	13.6				A	60	4	1400—0700	



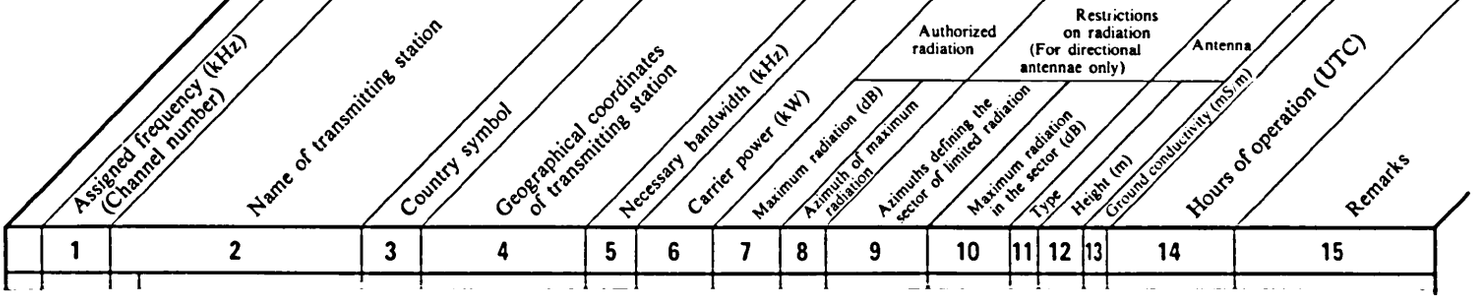
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1521	DUBA	ARS	35E36 27N25	C 9	2000	41.0	296	40—200	18.0	B		3	1500—0300	8 24
2	(111)	DENILIQUIN NSW	AUS	144E55 35S37	A20	5	9.1				A	102	2	1900—1400	
3		S TONGCHUAN	CHN	109E09 35N06	A20	20	13.4				A	50	4	2000—1800	
4		URUMQI SHI	CHN	87E30 43N35	A20	500	33.0	80	330— 10	9.0	B		4	2000—1800	
5		S WUQI	CHN	108E11 36N55	A20	20	13.4				A	50	4	2000—1800	
6		S YANAN	CHN	109E29 36N37	A20	20	13.4				A	50	4	2000—1800	
7		S YONGSHOU	CHN	108E08 34N41	A20	20	13.4				A	50	4	2000—1800	
8		S YULIN 1	CHN	109E36 38N18	A20	50	17.4				A	50	4	2000—1800	
9		S ZHENAN	CHN	109E10 33N27	A20	20	13.4				A	50	4	2000—1800	
10		EDEA	CME	10E09 03N51	C 9	20	15.1				A	98	5	0500—2300	
11		PNT NOIRE	COG	12E01 04S51	A20	100	22.1				A	99		0000—2400	
12		OVIEDO	E	05W48 43N23	D 9	5	7.4				A	40	5	0000—2400	
13		PONTEVEDRA	E	08W36 42N26	D 9	3	5.1				A	60	5	0000—2400	
14		KOSSEIR	EGY	34E16 26N07	D 9	20	15.1				A	100	4	0000—2400	24
15		NOTTINGHAM	G	01W15 52N57	A20	0.5	1.0	105			B		3	0000—2400	
16		NOUNA	HVO	03W52 12N44	A20	10	13.4				A	111	4	0000—2400	
17		AURANGABAD 1	IND	75E18 19N54	A20	20	15.1				A	100	3	0300—1000	25
18		AURANGABAD 2	IND	75E18 19N54	A20	10	12.1				A	100	3	1000—0300	
19		JAGDALPUR	IND	81E55 19N01	A20	20	15.1				A	100	3	0300—1000	25
20		KANPUR	IND	80E19 26N28	A20	20	15.1				A	100	3	0300—0900	25
21		TAWANG 1	IND	91E54 27N36	A20	20	15.1				A	100	4	0300—0900	25
22		TAWANG 2	IND	91E54 27N36	A20	10	12.1				A	100	4	0900—0300	
23		BANDARFARAHNAZ	IRN	49E58 37N25	A20	100	22.0	90	120—150		B		2	0200—2100	
24		BANDARFARAHNAZ	IRN	49E58 37N25	A20	100	22.0		230—260		B				
25		BANDARFARAHNAZ	IRN	49E58 37N25	A20	100	22.0		330— 50		B				
26		AOMORI	J	140E46 40N48	A15	1	2.1				A	108	5	0000—2400	
27		FUKUI	J	136E14 36N02	A15	1	2.1				A	110	5	0000—2400	
28		GUJYO HACHIMAN	J	136E57 35N45	A15	0.1	−9.4				A	71	5	0000—2400	
29		HAMAMATSU	J	137E46 34N40	A15	1	2.1				A	106	4	0000—2400	
30		HANAWA	J	140E48 40N13	A15	0.1	−9.4				A	71	5	0000—2400	
31		ISHIGAKI	J	124E09 24N22	A15	1	2.1				A	106	5	0000—2400	
32		KURE	J	132E36 34N15	A15	0.1	−9.4				A	71	5	0000—2400	
33		NAKAMURA	J	132E55 32N59	A15	1	2.1				A	105	5	0000—2400	
34		SAEKI	J	131E55 32N58	A15	0.1	−9.6				A	47	5	0000—2400	
35		YAMAGATA	J	140E20 38N17	A15	1	2.1				A	108	5	0000—2400	
36		YONAGO	J	133E19 35N27	A15	1	2.1				A	103	5	0000—2400	
37		MOMBASA	KEN	39E40 04S05	C 9	5	10.0	310	50—210	7.0	B		4	0000—2400	
38		JINAN	KOR	127E26 35N47	C10	1	0.6				A	80	6	0000—2400	
39		PYONGYANG	KRE	125E32 39N05	A16	50	20.0				B		6	2000—1800	
40		NEGOMANO	MOZ	38E29 11S25	C10	3	5.2				A	50	4	0400—2200	
41		NOUAKCHOTT	MTN	16W00 18N08	B20	50	19.1				A	98		0600—2400	24
42		REEFTON	NZL	171E51 42S05	A20	2	3.4				A	50	6	0000—2400	
43		BACOLOD CITY	PHL	122E56 10N40	C 9	5	7.6				A	61	3	2100—1600	
44		DAGUPAN CITY	PHL	120E20 16N03	C 9	5	7.6				A	61	3	2100—1600	
45		S AIOME	PNG	144E44 05S08	B10	2	3.4				A	30	3	1900—1300	
46		S KARKAR I	PNG	145E53 04S44	B10	2	3.4				A	30	6	1900—1300	
47		S MADANG	PNG	145E49 05S13	B10	10	10.6				A	80	5	1900—1300	
48		BAIBOKOUM	TCD	15E41 08N14	C 9	1	0.4				A			0400—2300	
49		S BAN BYSTRICA	TCH	19E08 48N40	C 9	14	12.1				A	60	5	0000—2400	
50		S BRATISLAVA M	TCH	17E10 48N10	C 9	14	12.1				A	60	4	0000—2400	
51		S KOSICE	TCH	21E15 48N42	C 9	600	31.2				A	115	5	0000—2400	
52		S NITRA	TCH	18E05 48N20	C 9	60	19.9				A	100	4	0000—2400	
53		S OSTRAVA	TCH	18E12 49N48	C 9	60	19.9				A	100	5	0000—2400	
54		S RIM SOBOTA	TCH	20E00 48N23	C 9	30	16.9				A	100	5	0000—2400	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1521	S	TATRY	TCH	20E18 49N03	C 9	14	12.1				A	60	5	0000—2400	
2	(111)		NIAMTOUGOU	TGO	01E18 09N37	A20	10	10.4				A	50	5	0000—2400	
3			BANGKOK	THA	100E31 13N46	A20	10	10.4				A	54	2	0000—2400	
4			DJEDEIDA	TUN	09E50 36N50	D 9	100	22.1				A	100	4	0800—1500	24
5		S	KALEVALA	URS	31E11 65N13	A18	5	10.4				A	120	4	0000—2400	
6		S	KUSTANAI	URS	63E37 53N12	C10	20	16.4				A	120	4	0000—2400	
7		S	NIKEL	URS	30E12 69N28	A18	5	10.4				A	120	5	0000—2400	
8		S	SORTAVALA	URS	30E37 61N41	A18	5	10.4				A	120	4	0000—2400	
9		S	TARA	URS	74E18 56N55	A18	5	10.4				A	120	4	0000—2400	
10		S	TCHADAN	URS	91E29 51N26	A18	5	10.4				A	120	4	0000—2400	
11		S	TURA	URS	100E17 64N16	A18	5	10.4				A	120	5	0000—2400	
12		S	VOLKHOV	URS	32E22 59N53	A18	5	10.4				A	120	4	0000—2400	
13			DERVENTA	YUG	17E54 45N00	D 9	1	0.6				A	50	4	0800—1500	7

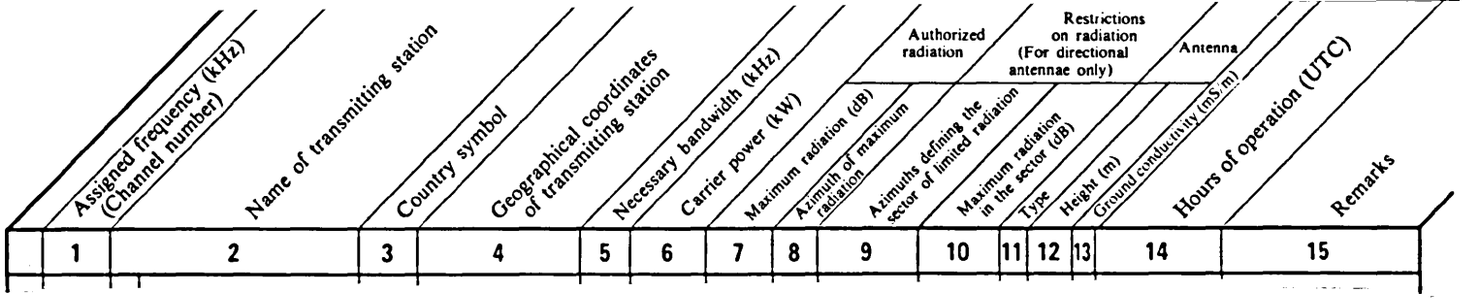


1530 KHZ (112)

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1530		LUBANGO	AGL	13E30	14S56	C10	5	7.4				A	50	3	0600–2400	
2	(112)		GIZAN	ARS	42E31	16N52	C 9	1000	35.0	130	230– 30	15.0	B		4	0000–2400	24
3			MOREE NSW	AUS	149E53	29S29	A20	5	7.4				A	50	3	1900–1400	
4			KANDI	BEN	02E56	11N08	C10	30	15.2				A	49	4	0500–2400	
5		S	DENGKOU	CHN	106E43	40N10	A20	50	17.4				A	50	4	2000–1800	
6		S	LIAOYUAN	CHN	125E10	42N52	A20	10	10.4				A	50	4	2000–1800	
7		S	SHUANGLIAO	CHN	123E30	43N31	A20	20	13.4				A	50	4	2000–1800	
8		S	TONGYU	CHN	123E05	44N49	A20	50	17.4				A	50	4	2000–1800	
9		S	XI UJUMQIN QI	CHN	117E33	44N38	A20	50	17.4				A	50	4	2000–1800	
10		S	XIANGHUANG QI	CHN	113E43	42N18	A20	100	20.4				A	50	4	2000–1800	
11		S	YANJI SHI	CHN	129E30	42N54	A20	10	10.4				A	50	4	2000–1800	
12		S	YUSHU 1	CHN	126E32	44N50	A20	50	17.4				A	50	4	2000–1800	
13			MANIHIKI	CKN	161W01	10S25	C10	1	0.0				A	20	2	1600–0900	
14			PENRHYN	CKN	158W02	08S59	C10	1	0.0				A	20	2	1600–0900	
15			PUKAPUKA	CKN	165W49	10S53	C10	1	0.0				A	20	2	1600–0900	
16			PRAIA	CPV	23W30	14N55	A18	100	20.4				A	50	6	1900–2400	
17			S M DI GALERIA	CVA	12E19	42N03	D 9	450	28.6				A	98	4	0000–2400	
18			BLACKPOOL	G	03W02	53N49	A20	0.3	–4.8				A	36	3	0000–2400	
19			HITCHIN	G	00W16	51N57	A20	0.2	–7.0	350	160–190	–20.0	B		4	0000–2400	
20			BHAGALPUR	IND	87E02	25N15	A20	20	15.1				A	100	3	0300–0900	25
21			MATHURA 1	IND	77E40	27N30	A20	20	15.1				A	100	3	0300–0900	25
22			MATHURA 2	IND	77E40	27N30	A20	10	12.1				A	100	3	0900–0300	
23			MYSORE	IND	76E42	12N18	A20	20	15.1				A	100	3	0300–1000	25
24			PASIGHAT 1	IND	95E20	28N06	A20	20	15.1				A	100	4	0300–0900	25
25			PASIGHAT 2	IND	95E20	28N06	A20	10	12.1				A	100	4	0900–0300	
26			SILCHAR	IND	92E47	24N45	A20	20	15.1				A	100	4	0300–0900	25
27			PADANG	INS	100E25	01S00	A18	5	7.4				A	51	3	2200–1700	
28			YAZD	IRN	54E24	31N54	A20	20	13.6				A	72	3	0100–1600	
29			YAZD	IRN	54E24	31N54	A20	10	10.6				A	72	3	1600–2200	
30			GEROFIT	ISR	35E04	30N34	D 9	10	12.1				A		3	0000–2400	33
31			ASO	J	131E03	32N56	A15	0.1	–9.4				A	67	5	0000–2400	
32			FUCHU	J	133E13	34N34	A15	0.1	–9.6				A	50	5	0000–2400	
33		S	ITOIGAWA	J	137E50	37N02	A15	0.1	–9.6				A	50	5	0000–2400	
34			KUSHIRO	J	144E25	42N59	A15	1	0.4				A	50	4	0000–2400	
35			MINAMATA	J	130E18	32N20	A15	1	0.6				A	68	5	0000–2400	
36		S	NAOETSU	J	138E15	37N09	A15	1	0.4				A	51	5	0000–2400	
37			UTSUNOMIYA	J	139E48	36N33	A15	5	9.1				A	104	4	0000–2400	
38			UWAJIMA	J	132E34	33N12	A15	1	0.6				A	68	5	0000–2400	
39			RYONGRIM	KRE	126E39	40N31	A16	50	20.0				B		7	2000–1800	
40			FUNCHAL	MDR	16W54	32N40	A20	10	10.6				A	60	4	0000–2400	
41			BINTULU	MLA	113E01	03N11	A20	20	15.1				A	100	5	2200–1700	
42			NEW PLYMOUTH	NZL	174E08	39S02	A20	2	3.4				A	50	5	0000–2400	
43			BHIRIA	PAK	68E30	26N00	A20	10	10.0				A	25	4	0000–1400	
44			DAVAO CITY	PHL	125E35	07N03	C 9	1	0.6				A	61	3	2100–1600	
45			MANDALU RIZAL	PHL	121E05	14N34	C 9	10	10.6				A	61	3	2100–1600	
46		S	MAHMUDIA	ROU	29E05	45N07	A20	15	12.2				A	49	4	0000–2400	
47		S	MIHAILENI	ROU	26E12	47N54	A20	15	11.8				A	495	5	0000–2400	
48			GITARAMA	RRW	29E44	02S03	C 9	50	19.1				A			0300–2100	
49			UTTARADIT	THA	100E06	17N38	A20	10	10.4				A	49	5	0000–2400	
50		S	JITOMIR	UKR	28E37	50N15	A18	5	10.4				A	120	4	0000–2400	
51		S	KIROVOGRAD	UKR	32E20	48N30	A18	5	10.4				A	120	4	0000–2400	
52		S	KOVEL	UKR	24E41	51N16	A18	5	10.4				A	120	4	0000–2400	
53		S	ANADYR	URS	177E30	64N45	A16	50	20.4				A	120	5	0000–2400	
54		S	ARALSK	URS	61E41	46N45	A18	5	10.4				A	120	4	0000–2400	



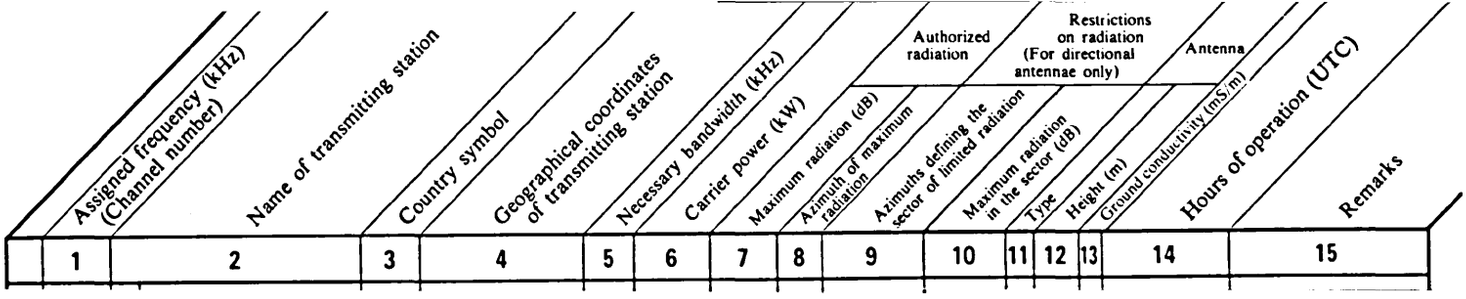
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1530	S	DJAMBUL	URS	71E22 42N55	A18	5	10.4				A	120	4	0000—2400	
2	(112)	S	GUZAR	URS	66E13 38N36	A18	5	10.4				A	120	4	0000—2400	
3		S	KARKARALINSK	URS	75E27 49N24	A18	5	10.4				A	120	4	0000—2400	
4		S	TALDY KURGAN	URS	78E00 45N34	A18	5	10.4				A	120	4	0000—2400	
5		S	ZEIA	URS	127E15 53N44	A18	5	10.4				A	120	4	0000—2400	
6			DONJI VAKUF	YUG	17E24 44N08	D 9	0.1	−9.4				A	40	8	0800—1500	7
7			METKOVIC	YUG	17E38 43N03	D 9	1	0.6				A	50	4	0800—1500	7
8			ORAHOVICA	YUG	17E54 45N32	D 9	1	0.6				A	50	4	0800—1500	7
9			SVETI NIKOLE	YUG	21E57 41N52	D 9	1	0.6				A	40	4	0800—1500	7



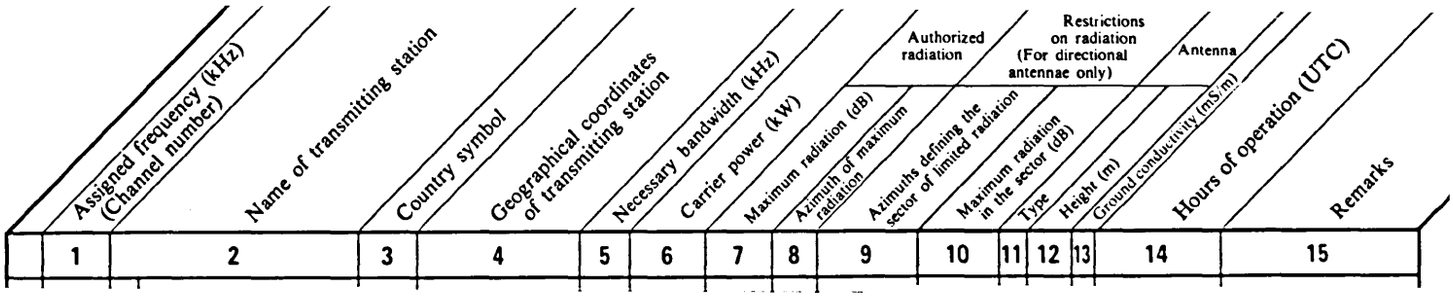
1539 KHZ (113)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1539	MEDINAH	ARS	39E33 24N28	C 9	50	20.4				A	120	4	0400—1400	24
2	(113)	MEDINAH	ARS	39E33 24N28	C 9	20	16.4				A	120	4	1400—2300	24
3		SYDNEY NSW	AUS	150E53 33S56	A20	10	10.4				A	30	4	0000—2400	
4		MBAIKI	CAF	17E50 03N53	C 9	10	10.6				A	72	3	0400—2300	
5		PHNOM PENH	CBG	104E50 11N33	C10	1	0.4				A	49	3	0000—1600	
6		DEHUA	CHN	118E15 25N30	A20	200	25.1				A	100	4	2000—1800	
7	S	GONGHE	CHN	100E40 36N18	A20	100	22.1				A	100	5	2000—1800	
8	S	MAQEN	CHN	100E09 34N22	A20	20	13.4				A	50	5	2000—1800	
9	S	MENYUAN	CHN	101E37 37N23	A20	10	10.4				A	50	5	2000—1800	
10		PAPHOS	CYP	32E22 34N52	C 9	50	19.1				A	100	5	0000—2400	
11		MAINFLINGEN	D	08E59 50N00	D 9	700	28.5				A	140	4	0000—2400	
12		DJIBOUTI 2	DJI	43E05 11N35	D 9	10	10.4				A	50	3	0000—2400	
13		VALLADOLID	E	04W45 41N38	D 9	5	7.4				A	50	4	0000—2400	
14		MAYUMBA	GAB	10E40 03S25	C 9	10	12.1				A		5	0400—2400	
15		TOUGAN	HVO	03W09 13N23	A20	10	10.4				A	49	4	0000—2400	
16		PANAJI GOA 1	IND	73E51 15N28	A20	300	26.9				A	100	4	0300—1000	25
17		PANAJI GOA 2	IND	73E51 15N28	A20	100	22.1				A	100	4	1000—0300	
18		KHASH	IRN	61E13 28N13	A20	2	3.4				A	50	4	0200—2100	
19		ENGARU	J	143E31 44N03	A15	0.1	−9.4				A	71	5	0000—2400	
20		IMABARI	J	133E01 34N03	A15	0.1	−9.4				A	71	5	0000—2400	
21		IMAGANE	J	139E58 42N25	A15	0.1	−9.4				A	71	5	0000—2400	
22		INA	J	137E57 35N50	A15	0.1	−9.4				A	71	5	0000—2400	
23		IWAKI	J	140E53 37N03	A15	0.1	−9.4				A	67	5	0000—2400	
24		JOHEN	J	132E35 32N58	A15	0.1	−9.6				A	47	5	0000—2400	
25		KAMIOKA	J	137E18 36N20	A15	0.1	−9.4				A	71	5	0000—2400	
26		KESENNUMA	J	141E34 38N54	A15	0.1	−9.4				A	67	5	0000—2400	
27		KOBAYASHI	J	130E58 32N00	A15	0.1	−9.4				A	67	5	0000—2400	
28		KOMORO	J	138E26 36N19	A15	0.1	−9.4				A	67	5	0000—2400	
29		KUJI AOMORI	J	141E48 40N11	A15	0.1	−9.4				A	71	5	0000—2400	
30		MASUDA	J	131E51 34N41	A15	0.1	−9.6				A	47	5	0000—2400	
31		NAKASHIBETSU	J	144E59 43N32	A15	0.1	−9.4				A	67	5	0000—2400	
32		OWASE	J	136E12 34N04	A15	0.1	−9.4				A	67	5	0000—2400	
33		SHINJO YAMAG	J	140E19 38N47	A15	0.1	−9.6				A	47	5	0000—2400	
34		TOKUNOSHIMA	J	129E01 27N45	A15	0.1	−9.4				A	72	5	0000—2400	
35		TOYOOKA	J	134E50 35N32	A15	0.1	−9.4				A	67	5	0000—2400	
36		TSUNAN	J	138E41 37N02	A15	0.1	−9.6				A		5	0000—2400	
37		WAKAMATSU	J	139E57 37N29	A15	0.1	−9.4				A	67	5	0000—2400	
38		KISUMU	KEN	34E45 00S05	C 9	5	9.1				A	100	4	0000—2400	
39		DAEJEONG	KOR	126E12 33N17	C10	1	2.1				A	80	4	0000—2400	
40		YANGKU	KOR	126E01 38N04	C10	5	9.1				A	80	6	0000—2400	
41		PUJON	KRE	127E40 40N28	A16	1	0.4				A	30		2000—1800	
42		MAJUNGA	MDG	46E18 15S42	C 9	5	7.0				A	144	4	0300—2000	
43		LOUREN MARQUES	MOZ	32E36 25S58	C10	10	10.4				A	50	4	0400—2200	
44		BLENHEIM	NZL	173E58 41S31	A20	2	3.4				A	40	5	0000—2400	
45		CEBU CITY	PHL	123E53 10N18	C 9	1	0.6				A	60	3	2100—1600	
46		MINDORO OCC	PHL	121E03 12N21	C 9	1	0.6				A	60	3	2100—1600	
47	S	KOKODA	PNG	147E44 08S53	D10	2	3.4				A	30	5	1900—1300	
48	S	POPONDETTA	PNG	148E17 08S49	D10	10	12.1				A	80	3	1900—1300	
49	S	WANIGELA	PNG	149E11 09S51	D10	2	3.4				A	30	3	1900—1300	
50		DAKAR	SEN	17W16 14N45	C 9	10	12.1				A	100	4	0600—2400	
51		N DJAMENA	TCD	15E03 12N08	C 9	2	5.1				A	83		0400—2300	
52		UDON THANI	THA	102E46 17N26	A20	10	10.4				A	40	3	0000—2400	
53		SHARJAH	UAE	55E24 25N22	C 9	50	17.4				A	45	5	0200—2100	24

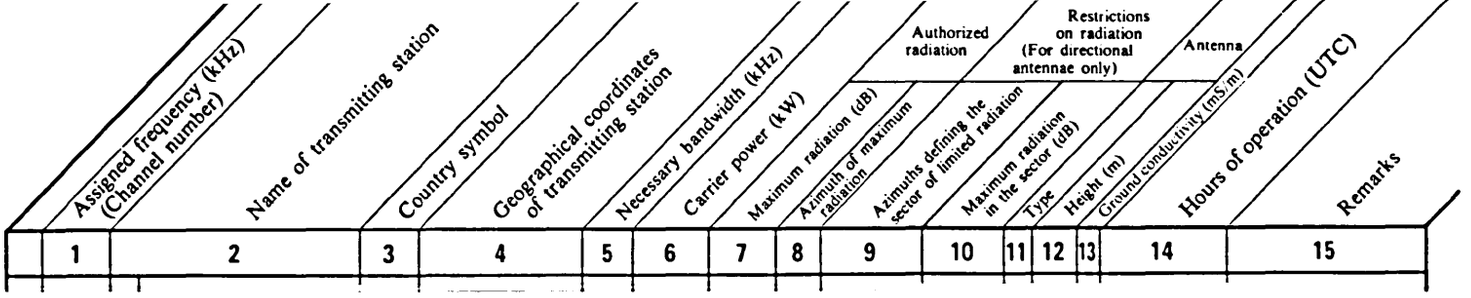
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1539	S	IALTA	UKR	34E10 44N39	A16	25	17.4				A	120	4	0000—2400	
2	(113)	S	IZIUM	UKR	37E17 49N13	A18	5	10.4				A	120	4	0000—2400	
3		S	TCHERNIGOV	UKR	31E19 51N29	A18	5	10.4				A	120	4	0000—2400	
4		S	BOROVITCHI	URS	33E50 58N21	A18	5	10.4				A	120	4	0000—2400	
5		S	DAUGAVPILS	URS	26E33 55N50	A16	5	10.4				A	120	4	0000—2400	
6		S	KUSTANAI	URS	63E37 53N12	A18	5	10.4				A	120	4	0000—2400	
7		S	LIEPAIA	URS	21E02 56N33	A16	5	10.4				A	120	4	0000—2400	
8		S	ROSLAVL	URS	32E48 53N56	A18	5	10.4				A	120	4	0000—2400	
9		S	SAMARKAND	URS	66E57 39N39	A18	5	10.4				A	120	4	0000—2400	
10		S	TCHELIABINSK	URS	61E24 55N09	C10	10	13.4				A	120	4	0000—2400	
11		S	TSESVAINE	URS	26E20 57N56	A16	5	10.4				A	120	4	0000—2400	
12		S	TURKESTAN	URS	68E17 43N17	A18	5	10.4				A	120	4	0000—2400	
13			ISTOK	YUG	20E29 42N46	D 9	5	7.4				A	40	3	0000—2400	41/PEC
14			ODZACI	YUG	19E17 45N30	D 9	0.1	−9.6				A	30	3	0800—1500	7
15			PEC	YUG	20E18 42N39	D 9	2	3.4				A	40	4	0000—2400	42/ISTOK
16			SINJ	YUG	16E40 43N25	D 9	1	0.6				A	50	4	0800—1500	7
17			SISAK	YUG	16E22 45N29	D 9	1	0.6				A	50	4	0800—1500	7
18			TESANJ	YUG	17E59 44N37	D 9	0.1	−9.6				A	30	4	0800—1500	7



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1548		LAGHOUAT	ALG	02E53 33N49	A20	4	6.4				A	45	5	0600–2400	24
2	(114)		EMERALD QLD	AUS	148E09 23S27	A20	50	19.1				A	94	4	1900–1400	
3			GROSS ARL	AUT	13E12 47N14	D 9	0.1	−10.0				A	15	6	0000–2400	
4			ABOMEY	BEN	02E00 07N14	C10	10	10.4				A	48	4	0500–2400	
5		S	BAQEN	CHN	93E43 32N01	A20	10	10.4				A	50	5	2000–1800	
6		S	COMA	CHN	91E28 28N28	A20	10	10.4				A	50	5	2000–1800	
7		S	DAMXUNG	CHN	91E10 30N35	A20	10	10.4				A	50	5	2000–1800	
8		S	DEZHOU	CHN	116E17 37N27	A20	30	15.2				A	50	4	2000–1800	
9		S	GERZE	CHN	84E15 32N20	A20	50	17.4				A	50	5	2000–1800	
10		S	LIAOCHENG	CHN	115E58 36N26	A20	30	15.2				A	50	4	2000–1800	
11		S	MEDO	CHN	95E13 29N18	A20	10	10.4				A	50	5	2000–1800	
12			NINGBO	CHN	121E32 29N52	A20	10	10.4				A	50	4	2000–1800	
13		S	QABDO	CHN	97E05 31N11	A20	50	17.4				A	50	5	2000–1800	
14		S	RUSHAN	CHN	121E29 36N53	A20	100	22.0	220	0– 80	12.0	B		4	2000–1800	
15		S	SAGA	CHN	85E18 29N25	A20	10	10.4				A	50	5	2000–1800	
16		S	SHAN XIAN	CHN	116E05 34N48	A20	20	13.4				A	50	4	2000–1800	
17		S	XIGAZE	CHN	89E00 29N20	A20	10	10.4				A	50	5	2000–1800	
18		S	ZAMDA	CHN	79E46 31N28	A20	10	10.4				A	50	5	2000–1800	
19		S	ZIBO	CHN	118E03 36N48	A20	10	10.4				A	50	4	2000–1800	
20			PERKARA	CLN	81E10 08N44	C10	400	33.0	185			B		3	0000–1800	
21			DJAMBALA	COG	14E59 02S32	A20	10	10.4				A	48		0000–2400	
22			MINDELO	CPV	24W59 16N53	A18	10	10.4				A	40	6	1900–2400	
23			BRISTOL	G	02W28 51N29	A20	5	11.0	225			B		3	0000–2400	
24			EDINBURGH	G	03W19 56N03	A20	2	3.4				A	46	3	0000–2400	
25			LIVERPOOL	G	02W48 53N30	A20	1	7.0	220			B		3	0000–2400	
26			LONDON 2	G	00W14 51N39	A20	27.5	20.0	160			B		3	0000–2400	
27			SHEFFIELD	G	01W30 53N26	A20	0.3	1.0	130			B		3	0000–2400	
28			STOCKTON	G	01W21 54N35	A20	1	0.4				A	38	3	0000–2400	
29			ADILABAD	IND	78E30 19N48	A20	20	15.1				A	100	3	0000–2400	
30			MARIVAN	IRN	46E10 35N33	A20	20	13.6				A	79	3	0200–2100	
31			BEER SHEVA	ISR	34E32 31N14	D 9	20	15.1				A		3	0000–2400	33
32			ITAZUKE	J	130E28 33N32	A15	10	10.6				A	60	4	0000–2400	
33			MARSABIT	KEN	38E00 02N20	C 9	20	15.1				A	100	4	0000–2400	
34			SUNCHEON	KOR	127E29 34N57	C10	1	0.6				A	60	6	0000–2400	
35			SUNGSANPO	KOR	126E54 33N27	C10	1	2.1				A	80	4	0000–2400	
36			KUWAIT	KWT	48E20 29N34	A20	100	27.0	170	240–120	18.0	B		8	0000–2400	24
37		S	BENGHAZI	LBY	20E04 32N02	D 9	20	13.4				A	50	4	0400–2400	24
38		S	DERNA	LBY	22E38 32N45	D 9	20	15.1				A	100	4	0400–2400	24
39			ULIASUTAI	MNG	96E50 47N40	A18	5	10.4				A	120	5	2200–1500	
40			FUNHALOURO	MOZ	34E23 23S05	C10	1	0.4				A	30	4	0400–2200	
41			MANIAMBA	MOZ	34E59 12S45	C10	1	0.4				A	30	4	0400–2200	
42		S	KAIAMA	NIG	03E57 09N36	C 9	10	12.1				A	100	4	0500–2300	
43		S	NEW BUSSA	NIG	04E30 10N14	C 9	10	12.1				A	100	4	0500–2300	
44			INVERCARGILL	NZL	168E37 46S19	A20	10	10.0				A	150	3	0000–2400	
45			KHIPRO	PAK	69E23 25N15	A20	10	10.0				A	23	4	0000–1400	
46			ANGELES PAMP	PHL	120E35 15N09	C 9	1	0.6				A	60	3	2100–1600	
47			BACOLOD CITY	PHL	122E57 10N42	C 9	1	0.6				A	72	3	0000–2400	
48			S HELENA	SHN	05W42 15S57	A20	0.5	−3.0				A	20	5	0600–2400	
49			MOUSSORO	TCD	16E31 13N39	C 9	1	0.4				A			0400–2300	
50			BANGKOK	THA	100E31 13N46	A20	10	10.4				A	50	2	0000–2400	
51			VINNITSA	UKR	28E28 49N14	A16	1000	33.0	40	110–200	22.0	B		4	0000–2400	
52			BIROBIDJAN	URS	133E00 49N16	C 9	50	22.0	350	160–230	13.0	B		4	0000–2400	
53			KARAGANDA	URS	73E05 49N50	C10	10	13.4				A	120	4	0000–2400	



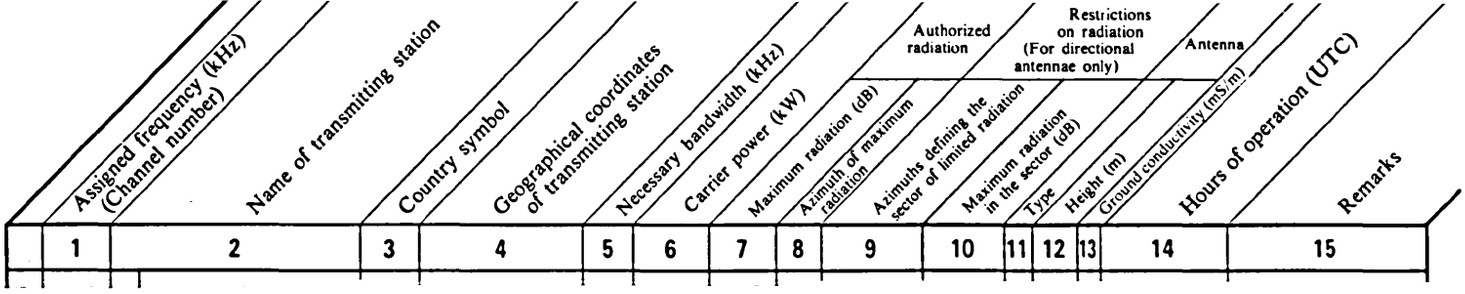
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1548	JASTREBARSKO	YUG	15E39 45N40	D 9	0.1	−9.6				A	40	3	0800—1500	7
2	(114)	NEGOTINO	YUG	22E06 41N29	D 9	1	0.6				A	40	4	0800—1500	7
3		STARA PAZOVA	YUG	20E10 44N56	D 9	0.2	−7.4				A	40	3	0800—1500	7
4		MONZE	ZMB	27E40 16S15	A20	2	6.4				A	122	2	0200—2100	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1557		TAREE NSW	AUS	152E28 31S55	A20	5	9.1				A	100	5	1900–1400	
2	(115)		CHIFENG SHI	CHN	118E52 42N18	A20	20	13.4				A	50	4	2000–1800	
3		S	CHONGAN	CHN	118E01 27N43	A20	10	10.4				A	50	4	2000–1800	
4		S	FUZHOU 1	CHN	119E24 26N06	A20	100	22.1				A	100	4	2000–1800	
5		S	JIANNING	CHN	116E50 26N53	A20	10	10.4				A	50	4	2000–1800	
6		S	LONGYAN	CHN	117E02 25N07	A20	10	10.4				A	50	4	2000–1800	
7		S	NANPING	CHN	118E12 26N45	A20	10	10.4				A	50	4	2000–1800	
8			SHANGHAI	CHN	121E29 31N15	A20	1	0.4				A	50	3	2000–1800	
9			TAXKORGAN	CHN	75E08 37N42	A20	0.1	−10.0				A	40	4	2000–1800	
10		S	XIAMEN	CHN	118E18 24N24	A20	10	10.4				A	50	4	2000–1800	
11			NICE	F	07E06 43N35	D 9	300	26.9				A	90	5	0000–2400	
12			MELENE	GAB	09E28 00N25	C 9	20	15.1				A	100	4	0400–2400	
13			AMSTERDAM	HOL	04E53 52N20	D 9	2	3.4				A	40	5	0000–2400	
14			GT NICOBAR	IND	93E50 07N15	A20	1000	35.0	120	5– 55	11.0	B		4	0000–2400	
15			GT NICOBAR	IND	93E50 07N15	A20	1000	35.0	300	185–235	11.0	B				
16			ARDEBIL	IRN	48E20 38N28	A20	10	10.4				A	48	3	0300–1400	
17			AKUNE	J	130E13 32N02	A15	0.1	−9.4				A	60	5	0000–2400	
18			ARAO	J	130E26 32N58	A15	0.1	−9.4				A	73	5	0000–2400	
19		S	ATAMI	J	139E11 35N02	A15	0.1	−8.0	240			B		5	0000–2400	
20			CHINO	J	138E09 35N59	A15	0.1	−9.6				A	50	5	0000–2400	
21		S	FUJINOMIYA	J	138E36 35N16	A15	0.1	−9.6				A	50	5	0000–2400	
22			GOBO	J	135E10 33N52	A15	0.1	−9.6				A	50	5	0000–2400	
23			HITA	J	130E55 33N20	A15	0.1	−9.6				A	48	5	0000–2400	
24			KURAYOSHI	J	133E49 35N27	A15	0.1	−9.6				A	65	5	0000–2400	
25		S	MISHIMA	J	138E55 35N06	A15	0.1	−7.9				A	87	5	0000–2400	
26			MIYAKO	J	141E56 39N38	A15	0.1	−9.4				A	67	5	0000–2400	
27			MIYAKONOJO	J	131E06 31N46	A15	0.1	−9.4				A	62	5	0000–2400	
28			NAKATSU	J	131E13 33N35	A15	0.1	−9.4				A	62	5	0000–2400	
29			NAKATSUGAWA	J	137E29 35N30	A15	0.1	−9.6				A	52	5	0000–2400	
30			NARUGO	J	140E42 38N44	A15	0.1	−9.6				A	34	5	0000–2400	
31			NIIHAMA	J	133E19 33N59	A15	0.1	−9.4				A	68	5	0000–2400	
32			OBAMA FUKUI	J	135E45 35N30	A15	0.1	−9.4				A	62	5	0000–2400	
33			ODATE	J	140E30 40N17	A15	0.1	−9.4				A	66	5	0000–2400	
34			OMACHI	J	137E51 36N30	A15	0.1	−9.6				A	50	5	0000–2400	
35			SHINGU	J	136E00 33N43	A15	0.1	−9.6				A	48	5	0000–2400	
36			TAKAYAMA	J	137E15 36N09	A15	0.1	−9.6				A	48	5	0000–2400	
37			UENO	J	136E09 34N45	A15	0.1	−9.6				A	53	5	0000–2400	
38			MALINDI	KEN	40E05 03S15	C 9	5	9.1				A	100	4	0000–2400	
39			PYOKDONG	KRE	125E22 40N36	A16	5	7.4				A	30		2000–1800	
40			KOLAHUN	LBR	10W05 08N16	A20	10	10.4				A	48	5	0500–2400	
41			DIEGO SUAREZ	MDG	49E17 12S17	C 9	5	9.1				A	96	4	0300–2000	
42			CYCLOPS	MLT	14E34 35N50	D 9	600	35.0	143	260– 30	8.0	B		3	0000–2400	
43			NAMAPA	MOZ	39E50 13S42	C10	3	5.2				A	48	4	0400–2200	
44			F DERICK	MTN	12W43 22N41	B20	20	15.1				A	96		0600–2400	24
45			HAWERA	NZL	174E16 39S31	A20	2	3.4				A	50	4	0000–2400	
46			SKARDU	PAK	75E24 35N12	A20	10	10.6				A	70	4	0000–2000	
47			LEGASPI CITY	PHL	123E44 13N08	C 9	1	0.6				A	60	3	2100–1600	
48			LINGAYEN PANG	PHL	120E10 16N03	C 9	1	0.6				A	60	3	2100–1600	
49		S	DARU	PNG	143E13 09S05	B10	10	12.1				A	80	3	1900–1300	
50		S	KIUNGA	PNG	141E18 06S08	B10	2	3.4				A	30	3	1900–1300	
51		S	L MURRAY	PNG	141E30 07S00	B10	2	3.4				A	30	3	1900–1300	
52			MULIVAI	SMO	171W46 14S02	A20	2	3.6				A	60	6	0000–2400	
53			ERIGAVO	SOM	47E22 10N37	A18	10	12.1				A		4	0300–2100	
54			ADRE	TCD	22E12 13N28	C 9	10	12.1				A			0400–2300	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1557		PHETCHABUN	THA	101E14 16N48	A20	10	10.4				A	48	5	0000—2400	
2	(115)		ANTAKYA	TUR	36E10 36N12	D 9	50	19.1				A	97	4	0200—2300	
3		S	KAMYCH ZARIA	UKR	36E35 45N20	A18	5	10.4				A	120	4	0000—2400	
4		S	CHAULIAI	URS	23E18 55N54	A18	25	17.4				A	120	4	0000—2400	
5		S	KARSAKPAI	URS	66E44 47N54	A18	5	10.4				A	120	4	0000—2400	
6		S	KAUNAS	URS	23E40 55N31	A18	75	22.2				A	120	4	0000—2400	
7		S	KHOLBON	URS	116E17 52N06	A18	5	10.4				A	120	5	0000—2400	
8		S	KLAIPEDA	URS	21E06 55N44	A16	5	10.4				A	120	4	0000—2400	
9		S	LENKORAN	URS	48E51 38N45	A18	5	10.4				A	120	4	0000—2400	
10		S	STEPNIAK	URS	70E50 52N51	A18	5	10.4				A	120	4	0000—2400	
11		S	TIURI	URS	24E43 58N28	A16	20	16.4				A	120	4	0000—2400	
12		S	TOMSK	URS	85E04 56N30	C10	20	16.4				A	120	4	0000—2400	
13		S	VECHINTOS	URS	25E00 55N40	A16	50	20.4				A	120	4	0000—2400	
14			OSIJEK	YUG	18E30 45N40	D 9	50	20.0	0	70—110	15.0	B		3	0000—2400	
15			OSIJEK	YUG	18E30 45N40	D 9	50	20.0	180	250—290	10.0	B				
16			CHOMA	ZMB	26E58 16S45	A20	10	13.4				A	121	2	0200—2100	

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1566		CABINDA	AGL	12E12 05S35	C10	5	7.4				A	50	3	1700—0100	
2	(116)		LOBITO	AGL	13E53 12S22	A20	1	0.4				A	48	3	0000—2400	
3		S	GYMPIE QLD	AUS	152E41 26S13	A20	2	3.4				A	36	4	1900—1400	
4			NORFOLK ISLAND	AUS	167E56 29S03	A20	0.1	−9.6				A		5	0000—2400	
5		S	SOUTHPORT QLD	AUS	153E26 28S02	A20	2	3.4				A	33	4	1900—1400	
6			WANGARATTA VIC	AUS	146E22 36S19	A20	5	9.1				A	95	3	1900—1400	
7		S	S CRUZ FLORES	AZR	31W08 39N27	A20	1	0.6				A	60	4	0000—2400	
8		S	V DO PORTO	AZR	25W08 36N57	A20	10	10.6				A	60	4	0000—2400	
9			APLAHOUE	BEN	01E40 06N57	C10	100	20.4				A	48	4	0800—1800	
10		S	MINSK	BLR	27E34 53N56	A16	5	10.4				A	120	4	0000—2400	
11		S	DEQING	CHN	111E46 23N09	A20	20	13.4				A	50	4	2000—1800	
12		S	HUIZHOU	CHN	114E24 23N05	A20	100	22.1				A	100	4	2000—1800	
13		S	JIANGMEN	CHN	113E07 22N32	A20	10	10.4				A	50	4	2000—1800	
14		S	JIEXI	CHN	115E50 23N26	A20	10	10.4				A	50	4	2000—1800	
15		S	YA XIAN	CHN	109E28 18N17	A20	50	17.4				A	50	4	2000—1800	
16		S	YINGDE	CHN	113E24 24N10	A20	20	13.4				A	50	4	2000—1800	
17		S	ZHANJIANG	CHN	110E24 21N12	A20	100	22.1				A	100	4	2000—1800	
18			BAFANG	CME	09E52 05N06	C 9	20	15.1				A	95	4	0500—2300	
19			EWO	COG	14E49 00S53	A20	5	7.4				A	48		0000—2400	
20			SUVA	FJI	178E26 18S09	A20	5	7.0				A	20	5	1700—1200	
21			NAGPUR	IND	79E03 21N06	C 9	2000	35.1				A	100	3	0300—0900	25
22			NAGPUR	IND	79E03 21N06	C 9	1000	32.0	260	65— 95	27.0	B		3	0900—0300	
23			BANDAR ABBAS	IRN	56E17 27N10	A20	100	22.1				A	96	2	0200—2100	
24			EN GEDI	ISR	35E22 31N22	D 9	10	12.1				A		4	0000—2400	33
25			CHITOSE	J	141E39 42N48	A15	0.3	−4.6				A	60	5	0000—2400	
26			NAIROBI	KEN	36E55 01S35	C 9	10	12.1				A	100	4	0000—2400	
27			JEJU	KOR	126E23 33N28	C10	250	30.0	80	140—200	16.0	B		4	2300—1100	
28			JEJU	KOR	126E23 33N28	C10	250	30.0	270	330— 20	16.0	B				
29			JEJU	KOR	126E23 33N28	C10	250	30.0	355	80—260	14.0	B		4	1100—2300	
30			TAEHUNG	KRE	126E56 40N06	A16	1	0.4				A	30		2000—1800	
31			TAMATAVE	MDG	49E24 18S08	C 9	5	9.1				A	95	4	0300—2000	
32		S	ARWAIHER	MNG	102E55 46N10	A18	5	10.4				A	120	5	2200—1500	
33		S	BULAGAN	MNG	103E20 48N50	A18	5	10.4				A	120	5	2200—1500	
34		S	SUHE BATOR 1	MNG	106E00 50N10	A18	5	10.4				A	120	5	2200—1500	
35		S	UNDERHAN	MNG	102E55 46N10	A18	5	10.4				A	120	4	2200—1500	
36			MABOTE	MOZ	34E07 22S03	C10	1	0.4				A	30	4	0400—2200	
37			MAUA	MOZ	37E10 13S53	C10	5	7.4				A	48	4	0400—2200	
38			ROTORUA	NZL	176E14 38S10	A20	2	3.4				A	50	5	0000—2400	
39			QUEZON CITY	PHL	122E10 14N01	C 9	10	10.6				A	59	3	2100—1600	
40			SARNEN	SUI	08E15 46N54	D 9	300	31.0	90			B		5	0500—0100	
41			AM DAM	TCD	20E28 12N46	C 9	1	0.4				A			0400—2300	
42			NOKOU	TCD	14E47 14N34	C 9	1	0.4				A			0400—2300	
43			N SITHAMMARAT	THA	99E55 08N30	A20	50	17.4				A	48	3	0000—2400	
44			SFAX	TUN	10E53 34N58	D 9	1200	32.0	120	320— 60	17.0	B		4	0000—2400	24
45			SFAX	TUN	10E53 34N58	D 9	1200	32.0	170	160—220	21.0	B				
46		S	ODESSA	UKR	30E45 46N29	A16	5	10.4				A	120	4	0000—2400	
47		S	PODVOLOTCHISK	UKR	26E10 49N35	A18	5	10.4				A	120	4	0000—2400	
48		S	STAROBELSK	UKR	38E34 49N17	A18	5	10.4				A	120	4	0000—2400	
49		S	EREVAN	URS	44E11 40N11	A16	5	10.4				A	120	4	0000—2400	
50		S	LENINGRAD	URS	30E00 59N44	A16	60	21.2				A	120	4	0000—2400	
51		S	TARTU	URS	26E41 58N22	A18	5	10.4				A	120	4	0000—2400	
52			LEPOSAVIC	YUG	20E49 43N06	D 9	1	0.4				A	40	4	0000—2400	
53			SMARJE	YUG	15E31 46N13	D 9	2	3.6				A	60	4	0800—1500	

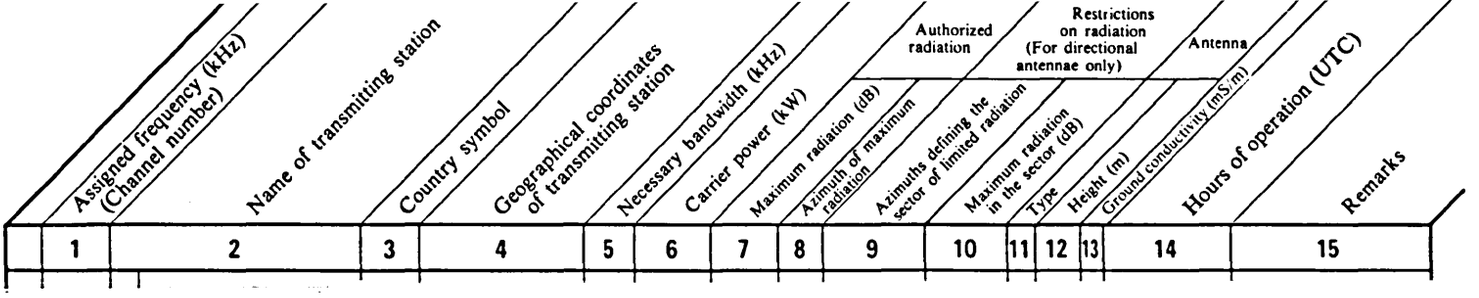


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1566	VRGIN MOST	YUG	15E50 45N20	D 9	1	0.6				A	50	4	0800—1500	7
2	(116)	BOMA	ZAI	13E35 05S50	C 9	1	0.6				A	60	8	0000—2400	
3		MBALA	ZMB	31E30 09S03	A20	10	10.0				A	148	4	0200—2100	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Authorized radiation: Maximum radiation (dB)	Restrictions on radiation (For directional antennae only): Azimuth of maximum radiation	Restrictions on radiation (For directional antennae only): Azimuths defining the sector of limited radiation	Restrictions on radiation (For directional antennae only): Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1575 KHZ (117)

	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1575		LANDANA	AGL	12E10 05S15	A20	5	7.4				A	50	3	0000—2400	
2	(117)		EXMOUTH WA	AUS	114E00 22S00	A20	10	12.1				A		2	2100—1600	
3			MELBOURNE VIC	AUS	145E00 37S35	A20	5					B		2	0000—2400	
4			WOLLONGONG NSW	AUS	150E52 34S30	A20	5					B		3	0000—2400	
5			MALAKAL ISLAND	CAR	134E28 07N20	A10	5	7.4				A	60	1	2100—1500	
6		S	DINGXI	CHN	104E30 35N20	A20	10	10.4				A	50	4	2000—1800	
7		S	JINGTAI	CHN	104E08 37N06	A20	20	13.4				A	50	4	2000—1800	
8		S	PINGLIANG	CHN	106E38 35N18	A20	10	10.4				A	50	4	2000—1800	
9			WENZHOU	CHN	120E36 28N06	A20	10	10.4				A	50	4	2000—1800	
10		S	WUDU	CHN	104E55 33N24	A20	10	10.4				A	50	4	2000—1800	
11		S	YONGCHANG	CHN	101E58 38N15	A20	20	13.4				A	50	4	2000—1800	
12		S	YUMEN SHI	CHN	97E20 39N42	A20	100	22.0	135	70—210	10.0	B		4	2000—1800	
13			ESEKA	CME	10E48 03N40	C 9	20	15.1				A	95	5	0500—2300	
14			BOUAKE	CTI	05W00 07N40	C 9	5	9.1				A	80	7	0600—2400	
15			NEUBRANDENBURG	DDR	13E05 53N30	D 9	500	29.1				A	100	4	0000—2400	
16			CORDOBA	E	04W49 37N55	D 9	5	7.4				A	40	3	0000—2400	
17			TCHIBANGA	GAB	11E03 02S52	C 9	15	13.9				A		5	0400—2400	
18		S	BARI	I	16E52 41N03	D 9	200	26.4				A	113	4	0000—2400	
19		S	LOCRI	I	16E14 38N13	D 9	10	10.4				A	48	5	0000—2400	
20		S	PALERMO	I	13E21 38N09	D 9	25	16.1				A	103	4	0000—2400	
21		S	PESCARA	I	14E14 42N26	D 9	50	20.4				A	111	4	0000—2400	
22		S	PORTOFINO	I	09E10 44N20	D 9	50	19.1				A	80	3	0000—2400	
23		S	REGGIO CALABR	I	15E39 38N06	D 9	2	3.6				A	62	5	0000—2400	
24		S	UDINE	I	13E15 46N03	D 9	2	5.1				A	103	5	0000—2400	
25			HISSAR 1	IND	75E48 29N00	A20	20	13.0				A	145	4	0300—0900	25
26			HISSAR 2	IND	75E48 29N00	A20	10	10.0				A	145	4	0900—0300	
27			SRINAGAR	IND	74E49 34N04	A20	10	10.0				A	25	4	0300—0900	
28			BANEH	IRN	45E53 36N00	A20	20	15.1				A	105	3	0200—1600	
29			BANEH	IRN	45E53 36N00	A20	10	12.1				A	105	3	1600—2200	
30			GEROFIT	ISR	35E04 30N34	D 9	10	12.1				A		3	0000—2400	33
31			IWAKUNI	J	132E13 34N08	A15	1	0.4				A	49	5	0000—2400	
32			MISAWA	J	141E22 40N41	A15	0.3	−4.8				A	34	5	0000—2400	
33			SASEBO	J	129E43 33N10	A15	0.3	−4.8				A	39	5	0000—2400	
34			NAKURU	KEN	36E05 00S07	C 9	20	15.1				A	100	4	0000—2400	
35			ONGJIN	KRE	125E22 37N56	A20	5	7.4				A	30		2000—1800	
36			CUREPIPE	MAU	57E31 20S19	C 9	10	10.4				A	50	4	0000—2400	
37			NOUADHIBOU	MTN	17W03 20N50	B20	20	15.1				A	96		0600—2400	24
38			NIAMEY	NGR	02E00 13N30	C 9	1	0.4				A	50	4	0000—2400	
39			CHRISTCHURCH	NZL	172E35 43S34	A20	10	10.4				A	50	4	0000—2400	
40			CEBU CITY	PHL	123E52 10N17	C 9	10	10.6				A	59	3	2100—1600	
41			LAE	PNG	147E00 06S44	D10	100	22.1				A	80	3	1900—1400	
42		S	BRAGA	POR	08W22 41N20	A20	10	10.6				A	60	5	0000—2400	
43		S	CHAVES	POR	07W26 41N46	A20	1	0.6				A	60	5	0000—2400	
44		S	MIRANDA DOURO	POR	06W16 41N29	A20	1	0.6				A	60	6	0000—2400	
45		S	PORTO	POR	08W38 41N11	A20	10	10.6				A	60	3	0000—2400	
46			OUM HADJER	TCD	19E42 13N17	C 9	10	12.1				A			0400—2300	
47			AYUTTHAYA	THA	100E47 14N24	A20	1000	35.0	40	160—190	27.0	B		2	2300—0900	
48			AYUTTHAYA	THA	100E47 14N24	A20	1000	35.0		260—290	27.0	B			2300—0900	
49			AYUTTHAYA	THA	100E47 14N24	A20	1000	35.0	140	210—280	27.0	B		2	0900—2300	
50			AYUTTHAYA	THA	100E47 14N24	A20	1000	35.0	0	210—280	27.0	B			0900—2300	
51			SHARJAH	UAE	55E24 25N22	C 9	50	17.4				A	45	5	0200—2100	24
52		S	FEODOSIA	UKR	35E20 45N02	A18	5	10.4				A	120	4	0000—2400	
53			BORZIA	URS	116E30 50N21	A18	5	10.4				A	120	4	0000—2400	
54			IUJNSAKHALINSK	URS	143E10 46N55	A16	5	10.4				A	120	4	0000—2400	



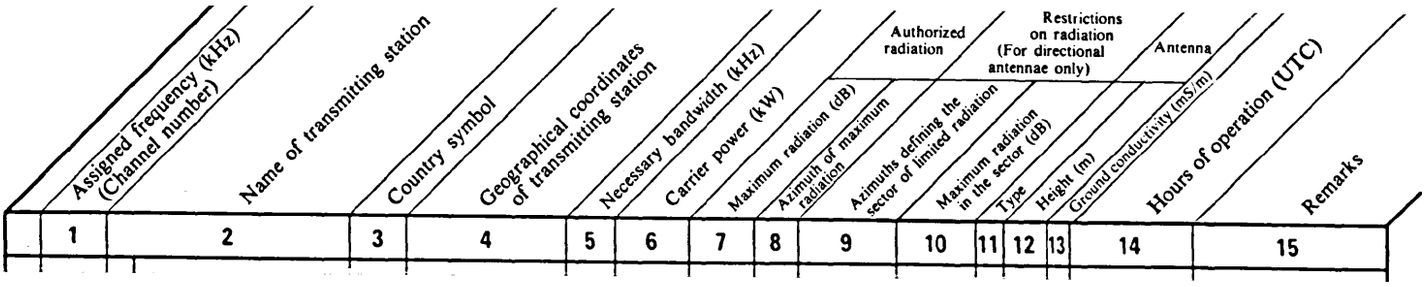
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1575	S	KALMYKOVO	URS	51E50 49N50	A18	5	10.4				A	120	4	0000–2400	
2	(117)		PROVIDENIA	URS	173W14 64N28	A18	5	10.4				A	120	4	0000–2400	
3		S	SEMIPALATINSK	URS	80E15 50N25	C10	10	13.4				A	120	4	0000–2400	
4		S	TACHKENT	URS	69E13 41N19	A16	5	10.4				A	120	4	0000–2400	
5			BAC	YUG	19E15 45N24	D 9	0.2	–7.4				A	40	3	0800–1500	7

1584 kHz (118) Canal pour émetteurs de faible puissance – voir l'appendice 1
Low-power channel – see Appendix 1
Canal para transmisores de baja potencia – véase el apéndice 1

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Restrictions on radiation (For directional antennae only): Authorized radiation: Maximum radiation (dB)	Authorized radiation: Azimuth of maximum radiation	Antenna: Azimuths defining the sector of limited radiation	Antenna: Maximum radiation in the sector (dB)	Antenna: Type	Antenna: Height (m)	Antenna: Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15

1593 KHZ (119)

	1		2	3	4		5	6	7	8	9	10	11	12	13	14	15
1	1593		LUANDA	AGL	13E14	08S48	C10	5	7.4				A	50	3	0500—2400	
2	(119)		JEDDAH	ARS	39E13	21N39	C10	1	0.6				A	60	3	0300—2300	
3		S	GYMPIE QLD	AUS	152E41	26S13	A20	2	3.4				A	36	4	1900—1400	
4		S	RENMARK SA	AUS	140E37	34S16	A20	2	3.4				A	37	2	1900—1400	
5		S	SOUTHPORT QLD	AUS	153E26	28S02	A20	2	3.4				A	33	4	1900—1400	
6			SPRINGWOOD NSW	AUS	150E34	33S42	A20	0.1	−10.0				A	33	5	1900—1400	
7		S	STREAKY BAY SA	AUS	134E11	32S45	A20	2	3.4				A		2	1900—1400	
8			KETOU	BEN	02E33	07N27	C10	5	7.4				A	47	4	0500—2400	
9			MOEN ISLAND	CAR	151E51	07N27	A10	5	7.4				A	45	1	2000—1400	
10			BEIJING	CHN	116E27	39N57	A20	10	10.4				A	50	4	2000—1800	
11		S	HABAHE	CHN	87E03	48N04	A20	10	10.4				A	50	4	2000—1800	
12			JIAMUSI	CHN	130E30	46N40	A20	10	10.0	230	10— 90	0.0	B		4	2000—1800	
13		S	JINGSHAN	CHN	113E06	31N02	A20	50	17.4				A	50	4	2000—1800	
14		S	TAXKORGAN	CHN	75E08	37N42	A20	10	12.0	130	270—350	2.0	B		4	2000—1800	
15		S	URUMQI SHI	CHN	87E30	43N35	A20	100	22.0	150	270— 50	10.0	B		4	2000—1800	
16		S	WUFENG	CHN	110E40	30N12	A20	40	16.4				A	50	4	2000—1800	
17		S	XIANNING	CHN	114E17	29N52	A20	20	13.4				A	50	4	2000—1800	
18			BANGANGTE	CME	10E30	05N08	C 9	20	15.1				A	94	4	0500—2300	
19			BETARE OYA	CME	14E00	05N59	C 9	10	12.1				A	94	4	0500—2300	
20			LANGENBERG	D	07E08	51N21	D 9	800	29.0				A	165	4	0000—2400	
21		S	EL MINYA	EGY	30E33	28N07	D 9	20	15.1				A	100	3	0000—2400	
22		S	IDFU	EGY	32E49	25N00	D 9	20	15.1				A	100	3	0000—2400	
23		S	SOHAG	EGY	31E43	26N27	D 9	20	15.1				A	100	3	0000—2400	
24			KOUNDARA	GUI	13W15	12N41	C 9	20	13.4				A	47	4	0000—2400	
25			MISKOLC	HNG	20E49	48N06	D 9	20	13.6				A	60	4	0000—2400	
26			MOSONMOVAR	HNG	17E16	47N52	D 9	5	7.6				A	115	3	0000—2400	
27			BOBO DIOULASSO	HVO	04W17	11N10	A20	10	10.4				A	39	4	0000—2400	
28			BHOPAL	IND	77E36	23N16	A20	20	15.1				A	105	3	0000—2400	
29			CHHATARPUR	IND	79E33	24N52	A20	20	15.1				A	105	3	0300—0900	25
30			DHARWAR	IND	74E59	15N27	A20	20	16.4				A	110	3	0300—1000	25
31			KOHIMA	IND	94E03	25N43	A20	20	15.1				A	105	4	0300—0900	25
32			PALGHAT	IND	76E42	10N48	A20	20	15.1				A	105	4	0300—1000	25
33			ISFAHAN	IRN	51E40	32N37	A20	100	22.1				A	93	3	0100—2200	
34			MATSUE	J	132E45	35N22	A15	10	10.0				A	136	4	0000—2400	
35			NIIGATA	J	138E55	37N51	A15	10	10.0				A	136	4	0000—2400	
36			NAKURU	KEN	36E05	00S07	C 9	5	9.1				A	100	4	0000—2400	
37			KANGGYE	KRE	126E37	40N57	A16	5	7.4				A	30		2000—1800	
38			ANTSIRABE	MDG	47E01	19S56	C 9	5	9.1				A	94	4	0300—2000	
39			MARRAKECH	MRC	08W00	31N40	C 9	1	0.6				A	60	4	0600—2400	
40			AUCKLAND	NZL	174E54	36S56	A20	5	10.0	290	30—160	3.0	B		3	0000—2400	
41			DIGOS DAVAO	PHL	125E21	06N45	C 9	10	10.6				A	59	3	0000—2400	
42		S	AITAPE	PNG	142E20	03S08	D10	2	3.4				A	30	3	1900—1300	
43		S	AMANAB	PNG	141E13	03S36	D10	2	3.4				A	30	3	1900—1300	
44		S	VANIMO	PNG	141E17	02S42	D10	10	12.1				A	80	5	1900—1300	
45			LISBOA	POR	09W06	38N24	A20	10	10.6				A	60	3	0000—2400	
46		S	BANEASA	ROU	27E45	44N07	A20	15	12.2				A	43	5	0000—2400	
47		S	MIERCUREA CIUC	ROU	25E48	46N23	A20	15	12.2				A	43	5	0000—2400	
48		S	ORADEA	ROU	21E58	47N03	A20	7.5	9.2				A	43	4	0000—2400	
49		S	SIBIU	ROU	24E10	45N47	A20	7.5	9.2				A	43	5	0000—2400	
50		S	VULCAN	ROU	23E13	45N15	C 9	7.5	10.9				A	78	5	0000—2400	
51			KOUNGHEUL	SEN	14W47	13N58	C 9	1	0.4				A	50	4	0600—2400	
52			HRADEC KRALOVE	TCH	15E50	50N14	A20	14	11.9				A	50	4	0400—1700	
53			HRADEC KRALOVE	TCH	15E50	50N14	A20	3	5.2				A	50	4	1700—0400	



	1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1593		LIBEREC	TCH	15E05 50N45	A20	30	15.2				A	50	5	0400—1700	
2	(119)		LIBEREC	TCH	15E05 50N45	A20	3	5.2				A	50	5	1700—0400	
3			MOR BUDEJOVICE	TCH	15E48 49N04	A20	30	15.2				A	50	5	0400—1700	
4			MOR BUDEJOVICE	TCH	15E48 49N04	A20	7	8.9				A	50	5	1700—0400	
5			OLOMOUC	TCH	17E15 49N45	A20	30	15.2				A	50	4	0400—1700	
6			OLOMOUC	TCH	17E15 49N45	A20	7	8.9				A	50	4	1700—0400	
7			USTI NAD LABEM	TCH	14E02 50N39	A20	14	11.9				A	50	5	0400—1700	
8			USTI NAD LABEM	TCH	14E02 50N39	A20	3	5.2				A	50	5	1700—0400	
9			LAMPHUN	THA	99E00 18N26	A20	50	17.4				A	47	5	0000—2400	
10			RANONG	THA	98E06 09N09	A20	10	10.4				A	44	3	0000—2400	
11		S	DNEPROPETROVSK	UKR	35E44 48N48	A16	5	10.4				A	120	4	0000—2400	
12		S	BAKU	URS	49E45 40N24	A16	5	10.4				A	120	4	0000—2400	
13		S	DJAR KURGAN	URS	67E40 37N30	A18	5	10.4				A	120	4	0000—2400	
14		S	DUCHANBE	URS	68E49 38N34	A16	5	10.4				A	120	4	0000—2400	
15			IRKUTSK	URS	104E18 52N18	A16	50	22.0	330	170—250	9.0	B		4	0000—2400	
16			KHABAROVSK	URS	135E10 48N33	A16	5	12.0	320	180—240	−6.0	B		4	0000—2400	
17		S	KICHINIOV	URS	28E52 47N00	A16	5	10.4				A	120	4	0000—2400	
18		S	KURGAN	URS	65E17 55N29	C10	20	16.4				A	120	4	0000—2400	
19		S	RIGA	URS	24E05 56N57	A16	10	13.4				A	120	4	0000—2400	
20		S	TCHIMKENT	URS	69E37 42N18	A18	5	10.4				A	120	4	0000—2400	
21			INDJIJA	YUG	20E04 45N03	D 9	0.2	−7.4				A	40	3	0800—1500	7
22			LIVNO	YUG	16E58 43N49	D 9	10	12.1				A	90	5	0000—2400	
23			LIBENGE	ZAI	18E37 03N38	C 9	1	0.6				A	60	8	0000—2400	

1602 kHz (120) Canal pour émetteurs de faible puissance – voir l'appendice 1
Low-power channel – see Appendix 1
Canal para transmisores de baja potencia – véase el apéndice 1

APPENDICE 1 AU PLAN

Assignations de fréquence dans les canaux pour émetteurs de faible puissance

Deuxième édition, novembre 1981
(Accord régional, Genève, 1975, article 4,
paragraphes 3.5.5 et 3.5.6)

EXPLICATION DES COLONNES

Colonne 1: *Fréquence assignée du canal*, en kHz.
Numéro du canal; ce numéro est indiqué entre parenthèses.

Colonne 2: *Nom de la station d'émission.* Le symbole S figurant à gauche de la ligne pointillée indique que la station fait partie d'un réseau synchronisé dont les autres stations portent le même symbole (voir sous Définitions, Chapitre 1 de l'Annexe 2 à l'Accord régional).

Colonne 3: *Symbole désignant le pays* ou la zone géographique où est située la station (voir le Tableau N° 1 de la Préface à la Liste internationale des fréquences).

Colonne 4: *Coordonnées géographiques de la station d'émission*, en degrés et minutes.

Colonne 5: *Largeur de bande nécessaire*, en kHz; la valeur en kHz est précédée du symbole A, B, C ou D qui indique le rapport de protection dans le canal adjacent à employer pour le calcul du champ utilisable. Les différents cas correspondant à ces symboles sont mentionnés dans le paragraphe 4.4.2 de l'Annexe 2 à l'Accord.

Colonne 6: *Puissance de l'onde porteuse*, en kW.

Colonne 7: *Puissance apparente rayonnée sur antenne verticale courte (p.a.r.v.)*, en kW.

Colonne 8: *Hauteur de l'antenne*, en mètres.

Colonne 9: *Conductivité du sol.* Les chiffres 1 à 9 figurant dans cette colonne se rapportent aux figures 1 à 9 contenues dans le chapitre 2 de l'Annexe 2 à l'Accord régional (page 341 des Actes finals de la Conférence). Le chiffre 1 renvoie à la figure 1, le chiffre 2 renvoie à la figure 2, et ainsi de suite.

Colonne 10: *Horaire de fonctionnement* (UTC) en heures et minutes. Exemples: 0730-1800, 0000-2400, 0500-0230.

Colonne 11: *Observations.*

APPENDIX 1 TO THE PLAN

Frequency Assignments to Stations in the Low-Power Channels

Second Edition, November 1981
(Regional Agreement, Geneva, 1975, Article 4,
paragraphs 3.5.5 and 3.5.6)

EXPLANATION OF THE COLUMN HEADINGS

Column 1: *Assigned channel frequency* (kHz).
Channel number; this number is shown in brackets.

Column 2: *Name of transmitting station.* The symbol S appearing to the left of the dotted line indicates that the station forms part of a synchronized network, the other stations of which bear the same symbol (see Definitions, Chapter 1 of Annex 2 to the Regional Agreement).

Column 3: *Symbol designating the country* or the geographical area in which the station is located (see Table No. 1 of the Preface to the International Frequency List).

Column 4: *Geographical coordinates of the transmitting station* in degrees and minutes.

Column 5: *Necessary bandwidth* (kHz); the value in kHz is preceded by the symbol A, B, C or D indicating the adjacent channel protection ratio that is to be employed in calculating the usable field strength. The cases corresponding to these symbols are listed in paragraph 4.4.2 of Annex 2 to the Agreement.

Column 6: *Carrier power* (kW).

Column 7: *Effective monopole radiated power (e.m.r.p.)* (kW).

Column 8: *Height of antenna* (metres).

Column 9: *Ground conductivity.* The numbers 1 to 9 appearing in this column refer to Figures 1 to 9 in Chapter 2 of Annex 2 to the Regional Agreement (page 341 of the Final Acts of the Conference). The number 1 denotes Figure 1, 2 denotes Figure 2, etc.

Column 10: *Hours of operation* (UTC) in hours and minutes, e.g., 0730-1800, 0000-2400, 0500-0230.

Column 11: *Remarks.*

APÉNDICE 1 AL PLAN

Asignaciones de frecuencia a estaciones en los canales de baja potencia

Segunda edición, noviembre de 1981
(Puntos 3.5.5 y 3.5.6 del Artículo 4 del
Acuerdo Regional, Ginebra, 1975)

EXPLICACIÓN DE LAS COLUMNAS

Columna 1: *Frecuencia asignada del canal*, en kHz.
Número del canal; el número del canal figura entre paréntesis.

Columna 2: *Nombre de la estación transmisora.* El símbolo S que figura a la izquierda de la línea de trazos indica que la estación forma parte de una red sincronizada cuyas demás estaciones llevan el mismo símbolo (véase el epígrafe Definiciones, Capítulo 1 del Anexo 2 al Acuerdo Regional).

Columna 3: *Símbolo del país* o área geográfica en la que está ubicada la estación (véase el Cuadro N.º 1 del Prefacio a la Lista Internacional de Frecuencias).

Columna 4: *Coordenadas geográficas de la estación transmisora*, en grados y minutos.

Columna 5: *Anchura de banda necesaria*, en kHz; el valor en kHz va precedido por el símbolo A, B, C o D que indica la relación de protección del canal adyacente que se empleará para calcular la intensidad de campo utilizable. En el punto 4.4.2 del Anexo 2 al Acuerdo figuran los diversos casos que corresponden a estos símbolos.

Columna 6: *Potencia de la portadora*, en kW.

Columna 7: *Potencia radiada aparente respecto a una antena vertical corta (p.r.a.v.)*, en kW.

Columna 8: *Altura de la antena* en metros.

Columna 9: *Conductividad del suelo.* Los números 1 a 9 que aparecen en esta columna se refieren a las figuras 1 a 9 del Capítulo 2 del Anexo 2 al Acuerdo Regional (página 341 de las Actas Finales de la Conferencia). El número 1 indica la figura 1, el número 2 indica la figura 2, etc.

Columna 10: *Horario de funcionamiento* (UTC) en horas y minutos. Ejemplo: 0730-1800, 0000-2400, 0500-0230.

Columna 11: *Observaciones.*

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	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1485	GERESHK	AFG	64E06 31N07	A 9	1	1.00	47	4	0000–2400	
2	(107)	GHORE	AFG	64E03 34N01	A 9	1	1.00	47	4	0000–2400	
3		KUNDOOZ	AFG	69E00 36N09	A 9	1	1.00	47	4	0000–2400	
4		UREZGAN	AFG	66E09 33N00	A 9	1	1.00	47	4	0000–2400	
5		LUANDA	AGL	13E14 08S48	A10	1	1.00	50	3	0000–2400	
6		MOCAMEDES	AGL	12E09 15S14	A10	1	1.00	58	3	0600–2300	
7		RRESHEN	ALB	19E53 41N46	A20	1	0.63	50	6	0400–2300	
8		AIN SEFRA	ALG	00W45 32N45	A20	1				0600–2400	
9		BISKRA	ALG	05E44 34N48	A20	1				0600–2400	
10		ASCENSION I	ASC	14W21 07S57	A20	0.5	0.25	38	5	0000–2400	
11		BRISBANE QLD	AUS	153E00 27S31	A20	0.3		45	3	0000–2400	
12		DAMPIER WA	AUS	116E43 20S39	A20	0.5		45	3	0000–2400	
13		HUGHENDEN QLD	AUS	144E11 20S51	A20	0.1		45	3	1900–1400	
14		LITHGOW NSW	AUS	150E09 33S29	A20	0.2		37	5	1900–1400	
15		PT LINCOLN SA	AUS	135E53 34S44	A20	0.2		37	2	1900–1400	
16		WOLLONGONG NSW	AUS	150E53 34S31	A20	0.1		30	3	0000–2400	
17		ABTENAU	AUT	13E21 47N34	D 9	0.1	0.10	15	6	0000–2400	
18		ACHENKIRCH	AUT	11E43 47N32	D 9	0.1	0.10	15	6	0000–2400	
19		AIGEN	AUT	13E58 48N39	D 9	0.1	0.10	15	6	0000–2400	
20		BAD AUSSEE	AUT	13E47 47N37	D 9	0.1	0.10	15	6	0000–2400	
21		EISENKAPPEL	AUT	14E35 46N29	D 9	0.1	0.10	15	6	0000–2400	
22		HIEFLAU	AUT	14E45 47N36	D 9	0.1	0.10	15	6	0000–2400	
23		HOPFGARTEN	AUT	12E10 47N27	D 9	0.1	0.10	15	6	0000–2400	
24		KAPPL	AUT	10E23 47N04	D 9	0.1	0.10	15	6	0000–2400	
25		KINDBERG	AUT	15E27 47N30	D 9	0.1	0.10	15	6	0000–2400	
26		KOETSCHACH	AUT	13E00 46N41	D 9	0.1	0.10	15	6	0000–2400	
27		MALLNITZ	AUT	13E10 46N59	D 9	0.1	0.10	15	6	0000–2400	
28		MARIA ZELL	AUT	15E19 47N46	D 9	0.1	0.10	15	6	0000–2400	
29		MAYRHOFEN	AUT	11E52 47N10	D 9	0.1	0.10	15	6	0000–2400	
30		MITTERSILL	AUT	12E29 47N17	D 9	0.1	0.10	15	6	0000–2400	
31		MURAU	AUT	14E11 47N07	D 9	0.1	0.10	15	6	0000–2400	
32		OBDACH	AUT	14E42 47N04	D 9	0.1	0.10	15	6	0000–2400	
33		OETZ	AUT	10E54 47N12	D 9	0.1	0.10	15	6	0000–2400	
34		REUTTE	AUT	10E43 47N29	D 9	0.1	0.10	15	6	0000–2400	
35		S MICHAEL L	AUT	13E39 47N06	D 9	0.1	0.10	15	6	0000–2400	
36		SAALFELDEN	AUT	12E51 47N26	D 9	0.1	0.10	15	6	0000–2400	
37		SCHEIFLING	AUT	14E25 47N09	D 9	0.1	0.10	15	6	0000–2400	
38		SCHWARZACH	AUT	13E10 47N19	D 9	0.1	0.10	15	6	0000–2400	
39		SPITTAL DRAU	AUT	13E29 46N48	D 9	0.2	0.20	15	6	0000–2400	
40		TRIEBEN	AUT	14E29 47N29	D 9	0.1	0.10	15	6	0000–2400	
41		WINDISCHGARSTN	AUT	14E20 47N43	D 9	0.1	0.10	15	6	0000–2400	
42		S CRUZ 2	AZR	28W01 39N03	A20	1	1.00	60	4	0000–2400	
43		LOKOSSA	BEN	01E44 06N32	A10	1	1.00	46	4	0800–1800	
44		NIKKI	BEN	02E36 09N55	A10	1	1.00	51	4	0500–2400	
45		PARAKOU	BEN	02E38 09N20	A10	1	1.00	46	4	0800–1800	
46		FARIDPUR	BGD	89E50 23N38	A20	1	1.00	50	3	0000–1800	
47		DIEGO GARCIA	BIO	72E22 07S16	A20	0.3	0.30	50	4	0000–2400	
48		BREST	BLR	23E54 52N18	A20	1	1.00	120	4	0000–2400	
49		GRODNO	BLR	24E00 53N54	A20	1	1.00	120	4	0000–2400	
50		MIADEL	BLR	26E54 54N53	A20	1	1.00	120	4	0000–2400	
51		MINSK	BLR	27E34 53N56	A20	1	1.00	120	4	0000–2400	
52		MOGHILEV	BLR	30E17 53N55	A20	1	1.00	120	4	0000–2400	
53		MOZYR	BLR	29E25 52N10	A20	1	1.00	120	4	0000–2400	
54		PINSK	BLR	26E10 52N10	A20	1	1.00	120	4	0000–2400	

	1		2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1485		SLONIM	BLR	25E20 53N03	A20	1	1.00	120	4	0000–2400	
2	(107)		UCHACHI	BLR	28E30 55N20	A20	1	1.00	120	4	0000–2400	
3			MAUN	BOT	23E26 19S58	A20	1	0.79	40	4	0300–2100	
4			ORAPA	BOT	25E26 21S20	A20	1	0.79	40	4	0300–2100	
5		S	CHABLA	BUL	28E30 43N30	A18	1	1.00	30	5	0000–2400	
6		S	GOTZE DELTCHEV	BUL	23E45 41N39	A18	1	1.00	30	5	0000–2400	
7		S	KULA	BUL	22E45 44N51	A18	1	1.00	30	5	0000–2400	
8		S	MITCHOURIN	BUL	27E52 42N09	A18	1	1.00	30	5	0000–2400	
9			BAMBIO	CAF	17E00 03N56	A 9	1	1.00	20	3	0400–2300	
10			KOUANGO	CAF	19E58 05N01	A 9	1	1.00	20	3	0400–2300	
11			NDELE	CAF	20E49 08N25	A 9	1	1.00	20	5	0400–2300	
12			OUADDA	CAF	22E24 08N04	A 9	1	1.00	20	5	0400–2300	
13			YALINGA	CAF	23E15 06N30	A 9	1	1.00	20	5	0400–2300	
14			ZEMIO	CAF	26E50 05N00	A 9	1	1.00	20	5	0400–2300	
15			BAICHENG	CHN	122E50 45N37	A20	1	1.00	60	4	2000–1800	
16			BAODING	CHN	115E33 38N51	A20	0.1	0.10	70	4	2000–1800	
17			BAOTOU	CHN	109E56 40N40	A20	0.5	0.50	120	4	2000–1800	
18			BEIAN	CHN	126E40 48N18	A20	1	1.00	60	4	2000–1800	
19			CHANGCHUN	CHN	125E24 43N48	A20	0.2	0.20	60	4	2000–1800	
20			CHENGDU	CHN	104E00 30N42	A20	1	1.00	90	4	2000–1800	
21			FUSHUN SHI	CHN	123E53 41N51	A20	1	1.00	90	4	2000–1800	
22			FUZHOU 1	CHN	119E24 26N06	A20	0.5	0.50	120	4	2000–1800	
23			HAIKOU	CHN	110E15 20N02	A20	0.5	0.50	90	4	2000–1800	
24			HAILAR	CHN	119E45 49N02	A20	1	1.00	50	4	2000–1800	
25			HARBIN	CHN	126E52 45N49	A20	1	1.00	90	4	2000–1800	
26			HUANGSHI	CHN	115E06 30N13	A20	0.5	0.50	90	4	2000–1800	
27			JILIN SHI	CHN	126E30 43N48	A20	1	1.00	50	4	2000–1800	
28			JINGDEZHEN	CHN	117E11 29N17	A20	1	1.00	50	4	2000–1800	
29			JINZHOU	CHN	121E07 41N07	A20	1	1.00	90	4	2000–1800	
30			JIUJIANG SHI	CHN	116E10 29N39	A20	0.5	0.50	90	4	2000–1800	
31			KAIFENG SHI	CHN	114E32 34N46	A20	1	1.00	70	4	2000–1800	
32			LIUZHOU	CHN	109E12 24N18	A20	0.5	0.50	90	4	2000–1800	
33			LUDA	CHN	121E30 38N54	A20	1	1.00	60	4	2000–1800	
34			MEI XIAN	CHN	116E00 24N20	A20	0.5	0.50	120	4	2000–1800	
35			NANJING	CHN	118E54 32N06	A20	0.2	0.20	90	3	2000–1800	
36			NANPING	CHN	118E12 26N45	A20	0.5	0.50	50	4	2000–1800	
37			NANTONG SHI	CHN	120E40 32N05	A20	1	1.00	50	3	2000–1800	
38			QINGDAO	CHN	120E20 36N03	A20	1	1.00	60	4	2000–1800	
39			SHANGHAI	CHN	121E29 31N15	A20	0.5	0.50	70	3	2000–1800	
40			SHENYANG	CHN	123E36 41N54	A20	0.5	0.50	90	4	2000–1800	
41			SIPING	CHN	124E20 43N10	A20	1	1.00	50	4	2000–1800	
42			TAIYUAN	CHN	112E33 37N45	A20	0.5	0.50	90	4	2000–1800	
43			TIANJIN	CHN	117E09 39N09	A20	0.5	0.50	60	4	2000–1800	
44			TONGCHUAN	CHN	109E09 35N06	A20	1	1.00	70	4	2000–1800	
45			WUXI SHI	CHN	120E26 31N33	A20	0.1	0.10	90	3	2000–1800	
46			XIAN	CHN	108E54 34N12	A20	0.5	0.50	50	4	2000–1800	
47			XUZHOU	CHN	117E20 34N14	A20	1	1.00	50	3	2000–1800	
48			YICHANG SHI	CHN	111E12 30N48	A20	0.5	0.50	70	4	2000–1800	
49			YINCHUAN	CHN	106E12 38N30	A20	0.3	0.30	70	4	2000–1800	
50			ZIGONG	CHN	104E40 29N27	A20	1	1.00	50	4	2000–1800	
51			BATTICALOA	CLN	81E40 07N45	A20	1	1.00	50	5	0000–1800	
52			CHILAW	CLN	79E48 07N30	A20	1	1.00	50	5	0000–1800	
53			COLOMBO	CLN	79E50 06N55	A20	1	1.00	50	5	0000–1800	
54			MATARA	CLN	80E27 06N00	A20	1	1.00	50	5	0000–1800	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1485	AMBAM	CME	11E12 02N28	A 9	1			5	0500–2300	
2	(107)	DJOUM	CME	12E42 02N45	A 9	1			5	0500–2300	
3		TIBATI	CME	12E37 06N25	A 9	1			4	0500–2300	
4		ARRECIFE	CNR	13W35 28N55	A20	1	0.79	30	5	0000–2400	
5		LOS LLANOS	CNR	17W55 28N40	A20	1	0.63	30	5	0000–2400	
6		S SEBASTIANGOM	CNR	17W05 28N05	A20	1	0.63	30	5	0000–2400	
7		VALVERDE	CNR	17W55 27N45	A20	1	0.63	30	5	0000–2400	
8		DIVENIE	COG	12E05 02S40	A20	1	0.50		5	0000–2400	
9		DONGOU	COG	18E00 02N30	A20	1	0.50			0000–2400	
10		KELLE	COG	14E30 00S10	A20	1	0.50		5	0000–2400	
11		ADZOPE	CTI	03W51 06N06	A 9	1			7	0600–2400	
12		BOUNDIALI	CTI	06W28 09N32	A 9	1			7	0600–2400	
13		SOUBRE	CTI	06W36 05N46	A 9	0.1			7	0600–2400	
14		TOUBA	CTI	07W41 08N17	A 9	1			7	0600–2400	
15		VAVOUA	CTI	06W45 07N22	A 9	0.1			7	0600–2400	
16		ADELSHEIM	D	09E24 49N25	D 9	0.2	0.20	41	4	0000–2400	
17		ANSBACH	D	10E35 49N17	D 9	0.3	0.30	67	4	0000–2400	11/USA
18		AUGSBURG	D	10E51 48N21	D 9	1	1.00	61	4	0000–2400	11/USA
19		BAD DUERRHEIM	D	08E31 48N00	D 9	1	1.00	100	4	0000–2400	
20		BADEN BADEN	D	08E15 48N46	D 9	1	1.00	100	4	0000–2400	
21		BERCHTESGADEN	D	12E59 47N37	D 9	0.3	0.30	34	4	0000–2400	11/USA
22		BETZDORF	D	07E55 50N45	D 9	1	1.00	100	4	0000–2400	
23		CRAILSHEIM	D	10E03 49N09	D 9	0.3	0.30	65	4	0000–2400	11/USA
24		EIFEL	D	06E25 50N12	D 9	1	1.00	100	4	0000–2400	
25		FREIBURG	D	07E48 48N01	D 9	1	1.00	100	4	0000–2400	
26		FULDA	D	09E43 50N32	D 9	1	1.00	50	4	0000–2400	
27		GARMISCHPARTEN	D	11E03 47N29	D 9	0.3	0.30	30	4	0000–2400	11/USA
28		HOF SAALE	D	11E53 50N19	D 9	0.4	0.40	50	4	0000–2400	
29		HOHENFELS	D	11E50 49N13	D 9	0.3	0.30	40	5	0000–2400	11/USA
30		KAISERSLAUTERN	D	07E46 49N28	D 9	1		100	4	0000–2400	
31		KASSEL ROTHWES	D	09E31 51N24	D 9	0.3	0.30	45	4	0000–2400	11/USA
32		KOBLENZ	D	07E34 50N23	D 9	1		100	4	0000–2400	
33		LANDAU	D	08E08 49N05	D 9	1	1.00	100	4	0000–2400	
34		LOERRACH	D	07E36 47N36	D 9	1	1.00	100	4	0000–2400	
35		MARBURG	D	08E47 50N49	D 9	1	1.00	50	4	0000–2400	
36		MUENSTER	D	07E34 51N58	D 9	0.8	0.80	45	4	0000–2400	
37		RAVENSBURG	D	09E31 47N47	D 9	1	1.00	100	4	0000–2400	
38		REGENSBURG	D	12E07 49N00	D 9	0.3	0.30	20	4	0000–2400	
39		REUTLINGEN	D	09E07 48N32	D 9	1	1.00	100	4	0000–2400	
40		TRIER	D	06E39 49N45	D 9	1	1.00	100	4	0000–2400	
41		WUERZBURG	D	09E54 49N47	D 9	0.2	0.20	110	4	0000–2400	
42		ANKLAM	DDR	13E42 53N51	D 9	1		20	4	0000–2400	
43		BERNBURG	DDR	11E48 51N58	D 9	1	1.00	20	4	0000–2400	
44		DEMMIN	DDR	13E03 53N55	D 9	1		20	4	0000–2400	
45		ERFURT	DDR	11E00 51N00	D 9	1	1.00	20	4	0000–2400	
46		KAMENZ	DDR	14E49 51N19	D 9	1		20	4	0000–2400	
47		LUEBZ	DDR	12E05 53N26	D 9	1		20	4	0000–2400	
48		NEUBRANDENBURG	DDR	13E17 53N33	D 9	1		20	4	0000–2400	
49		NEURUPPIN	DDR	12E48 52N56	D 9	1		20	4	0000–2400	
50		PASEWALK	DDR	14E00 53N30	D 9	1		20	4	0000–2400	
51		SONNEBERG	DDR	11E11 50N21	D 9	1		20	4	0000–2400	
52		TETEROW	DDR	12E35 53N46	D 9	1		20	4	0000–2400	
53		WORBIS KEULA	DDR	10E22 51N26	D 9	1		20	4	0000–2400	
54		ADRA	E	03W00 36N45	D20	0.3	0.19	30	5	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1485	ALBACETE	E	01W50 39N00	D20	1	0.63	30	5	0000–2400	
2	(107)	ALCALA LA REAL	E	03W55 37N30	D20	0.3	0.19	30	4	0000–2400	
3		ALICANTE	E	00W30 38N20	D20	1	0.63	30	5	0000–2400	
4		ALMERIA	E	02W30 36N50	D20	1	0.63	30	5	0000–2400	
5		ARANDA DUERO	E	03W40 41N40	D20	0.3	0.19	30	4	0000–2400	
6		ASTORGA	E	06W03 42N27	D20	0.3	0.19	40	5	0000–2400	
7		AVILA	E	04W40 40N40	D20	0.5	0.32	30	5	0000–2400	
8		BADAJOZ	E	07W00 38N50	D20	1	0.63	30	5	0000–2400	
9		BARBASTRO	E	00E10 42N00	D20	0.3	0.19	30	4	0000–2400	
10		BAZA	E	02W45 37N30	D20	0.3	0.19	30	4	0000–2400	
11		BEASAIN	E	02W11 43N03	D20	0.3	0.19	40	5	0000–2400	
12		BERGA	E	01E50 42N10	D20	0.3	0.19	30	5	0000–2400	
13		CACERES	E	06W20 39N30	D20	1	0.63	30	5	0000–2400	
14		CADIZ	E	06W20 36N30	D20	1	0.63	30	3	0000–2400	
15		CALATAYUD	E	01W40 41N20	D20	0.3	0.19	30	4	0000–2400	
16		CANGAS DE ONIS	E	05W05 43N20	D20	0.3	0.19	30	5	0000–2400	
17		CARAVACA	E	01W50 38N05	D20	0.3	0.19	30	4	0000–2400	
18		CASTELLON	E	00W00 40N00	D20	1	0.63	30	5	0000–2400	
19		CIUDADELA	E	03E50 40N00	D20	0.3	0.19	30	4	0000–2400	
20		ECIJA	E	05W05 37N30	D20	0.3	0.19	30	4	0000–2400	
21		EL FERROL	E	08W15 43N30	D20	1	0.63	30	5	0000–2400	
22		FIGUERAS	E	02E55 42N15	D20	0.3	0.19	30	4	0000–2400	
23		MARBELLA	E	04W50 36N30	D20	0.3	0.19	30	5	0000–2400	
24		PALENCIA	E	04W30 42N00	D20	0.5	0.32	30	5	0000–2400	
25		REINOSA	E	04W10 43N00	D20	0.3	0.19	30	5	0000–2400	
26		RIBADEO	E	07W00 43N30	D20	0.3	0.19	30	5	0000–2400	
27		SALAMANCA	E	05W40 41N00	D20	1	0.63	30	5	0000–2400	
28		TARREGA	E	01E10 41N40	D20	0.3	0.19	30	5	0000–2400	
29		VERIN	E	07W30 41N55	D20	0.3	0.19	30	5	0000–2400	
30		VITORIA	E	02W40 42N50	D20	1	0.63	30	5	0000–2400	
31		AYAT	EGY	31E12 29N40	A20	1	1.00	47	4	0000–2400	
32		ISMALIA	EGY	32E18 30N15	A20	1	1.00	47	4	0000–2400	
33		ISNA	EGY	32E33 25N17	A20	1	1.00	49	4	0000–2400	
34		KOM OMBO	EGY	32E55 24N27	A20	1	1.00	47	4	0000–2400	
35		MAGHAGHA	EGY	30E51 28N38	A20	1	1.00	47	4	0000–2400	
36		MALLAWY	EGY	30E51 27N45	A20	1	1.00	47	4	0000–2400	
37		MATRUH	EGY	27E09 31N19	A20	1	1.00	47	4	0000–2400	
38		MUT	EGY	28E55 25N30	A20	1	1.00	47	4	0000–2400	
39		NAJ HAMADI	EGY	32E10 26N00	A20	1	1.00	47	4	0000–2400	
40		RAS GHAREB	EGY	30E00 28N20	A20	1	1.00	47	4	0000–2400	
41		RASHID	EGY	30E25 31N15	A20	1	1.00	47	4	0000–2400	
42		TEMA	EGY	31E25 26N53	A20	1	1.00	47	4	0000–2400	
43		ASSAB	ETH	42E46 13N01	A 9	1	1.00	50	3	0000–2400	
44		NEGHELLI	ETH	39E41 09N17	A 9	1	1.00	50	3	0000–2400	
45		TESSENAI	ETH	36E14 15N07	A 9	1	1.00	50	3	0000–2400	
46		BORDEAUX V	F	00W40 44N50	D 9	1	1.00	50	7	0000–2400	
47		BREST V	F	04W30 48N25	D 9	1	1.00	50	7	0000–2400	
48		DIJON V	F	05E03 47N20	D 9	1	1.00	50	7	0000–2400	
49		GRENOBLE V	F	05E44 45N11	D 9	1	1.00	50	7	0000–2400	
50		LE MANS V	F	00E15 48N00	D 9	1	1.00	50	7	0000–2400	
51		LILLE V	F	03E03 50N38	D 9	1	1.00	50	7	0000–2400	
52		MARSEILLE V	F	05E20 43N18	D 9	1	1.00	50	7	0000–2400	
53		NANCY V	F	06E10 48N40	D 9	1	1.00	50	7	0000–2400	
54		REIMS V	F	04E05 49N15	D 9	1			7	0000–2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11

	1		2	3	4	5	6	7	8	9	10	11
1	1485		ROUEN V	F	01E05 49N25	D 9	1	1.00	50	7	0000–2400	
2	(107)		TOULOUSE V	F	01E25 43N35	D 9	1	1.00	50	7	0000–2400	
3			TOURS V	F	00E42 47N23	D 9	1	1.00	50	7	0000–2400	
4			LABASA	FJI	179E22 16S25	A20	1	0.63	30	3	1700–1200	
5			SIGATOKA	FJI	177E31 18S09	A20	1	0.63	30	3	1700–1200	
6			FORSSA	FNL	23E38 60N49	A20	1	1.00	50	5	0000–2400	
7			HANKO	FNL	23E00 59N50	A20	1	1.00	50	5	0000–2400	
8			IMATRA	FNL	28E46 61N10	A20	1	1.00	50	5	0000–2400	
9			JOENSUU	FNL	29E47 62N36	A20	1	1.00	50	5	0000–2400	
10			KEMI	FNL	24E34 65N44	A20	1	1.00	50	5	0000–2400	
11			KEMIJARVI	FNL	27E23 66N43	A20	1	1.00	50	7	0000–2400	
12			KOKKOLA	FNL	23E11 63N50	A20	1	1.00	50	5	0000–2400	
13			KOTKA	FNL	26E56 60N30	A20	1	1.00	50	5	0000–2400	
14			LAHTI	FNL	25E39 60N58	A20	1	1.00	50	5	0000–2400	
15			MIKKELI	FNL	27E14 61N40	A20	1	1.00	50	5	0000–2400	
16			NOKIA	FNL	23E31 61N28	A20	1	1.00	50	5	0000–2400	
17			PORI	FNL	21E52 61N28	A20	1	1.00	50	5	0000–2400	
18			RAAHE	FNL	24E31 64N41	A20	1	1.00	50	5	0000–2400	
19			RAISIO	FNL	22E11 60N28	A20	1	1.00	50	5	0000–2400	
20			SUOMENLINNA	FNL	24E59 60N08	A20	1	1.00	50	5	0000–2400	
21			VAASA	FNL	21E38 63N06	A20	1	1.00	50	4	0000–2400	
22			BRIGHTON	G	00W15 50N50	A20	1	0.79	82	4	0000–2400	
23			CARLISLE	G	02W55 54N52	A20	1	1.00	46	4	0000–2400	
24		S	DUNDEE	G	02W58 56N28	A20	2	0.50	21	4	0000–2400	
25		S	EDINBURGH	G	03W15 55N58	A20	1.5	0.95	38	4	0000–2400	
26		S	FERN BARROW	G	01W54 50N44	A20	1	1.00	45	4	0000–2400	
27		S	GLASGOW	G	04W19 55N50	A20	1.5	0.95	38	4	0000–2400	
28			HULL	G	00W14 53N43	A20	1.5	0.95	38	3	0000–2400	
29			OXFORD	G	01W11 51N47	A20	1	1.00	46	3	0000–2400	48/90/115/0.1
30		S	TORQUAY	G	03W33 50N29	A20	0.5	0.10	18	4	0000–2400	
31			WALLASEY	G	03W04 53N26	A20	2	1.00	46	3	0000–2400	
32			KOULAMOUTOU	GAB	12E26 01S14	A 9	0.1			5	0400–2400	
33			AMFILOCHIA	GRC	21E08 38N50	A 9	1	0.63	40	4	0000–2400	
34			CHIOS	GRC	26E05 38N20	A 9	1	0.79	50	5	2300–2200	
35			CHORA SFAKION	GRC	24E13 35N14	A 9	1	0.79	50	5	0400–2400	
36			KASTORIA	GRC	21E15 40N30	A 9	1	0.79	50	5	0400–2400	
37			MAKROS	GRC	24E11 41N16	A 9	1	0.79	50	4	0400–2400	
38			NEA MAKRI	GRC	24E01 38N09	A 9	1	0.79	27	3	0000–2400	
39			PATRAI	GRC	21E45 38N15	A 9	1	0.79	50	5	2300–2200	
40			PYRGOS	GRC	21E29 37N42	A 9	1	0.79	50	4	0400–2400	
41			SPARTI	GRC	22E33 37N02	A 9	1	0.79	50	4	0400–2400	
42			VALTOS	GRC	26E22 41N32	A 9	1	0.79	50	3	0400–2400	
43			VOLOS	GRC	22E57 39N21	A 9	1	0.79	50	4	0400–2400	
44			BOKE	GUI	14W18 10N56	A 9	1	1.00	50		0000–2400	
45			DALABA	GUI	12W12 10N47	A 9	1	1.00	45		0000–2400	
46			KANKAN	GUI	09W17 10N20	A 9	1	1.00	50		0000–2400	
47			LELOUMA	GUI	12W42 11N27	A 9	1	1.00	45		0000–2400	
48			YOMOU	GUI	09W20 07N40	A 9	1	1.00	45		0000–2400	
49			AJKA	HNG	17E32 47N07	D18	1	1.00	60	4	0000–2400	
50			ALMASFUZITO	HNG	18E14 47N45	D18	1	1.00	60	4	0000–2400	
51			DEBRECEN	HNG	21E33 47N31	D18	1	1.00	60	4	0000–2400	
52			HODMEZOVASARH	HNG	20E20 46N26	D18	1	1.00	60	4	0000–2400	
53			KAPUVAR	HNG	17E02 47N35	D18	1	1.00	60	4	0000–2400	
54			KAZINCBARCIKA	HNG	20E31 48N16	D18	1	1.00	60	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1485	MOHACS	HNG	18E42 46N00	D18	1	1.00	60	4	0000–2400	
2	(107)	SALGOTARJAN	HNG	19E12 48N07	D18	1	1.00	60	4	0000–2400	
3		SGRAVENHAGE	HOL	04E20 52N05	D 9	2	1.00	30	5	0000–2400	
4		TILBURG	HOL	05E05 51N25	D 9	2	1.00	30	5	0000–2400	
5		DJIBO	HVO	01W38 14N04	A20	1	1.00		4	0000–2400	
6		GOROM GOROM	HVO	00E15 14N26	A20	1	1.00		4	0000–2400	
7		KANTCHARI	HVO	01E28 12N39	A20	1	1.00		4	0000–2400	
8		NDORALA	HVO	04W56 11N50	A20	1	1.00		4	0000–2400	
9		SEBBA	HVO	00E30 13N30	A20	1	1.00		4	0000–2400	
10		TOMA	HVO	02W56 12N44	A20	1	1.00		4	0000–2400	
11		TOUGOURI	HVO	00W25 13N15	A20	1	1.00		4	0000–2400	
12		AQUILA	I	13E24 42N21	D 9	1	1.00	50	5	0000–2400	
13		ASCOLIPICENO	I	13E34 42N51	D 9	1	1.00	50	5	0000–2400	
14		BELLUNO	I	12E13 46N08	D 9	1	1.00	50	5	0000–2400	
15		CAMPOBASSO	I	14E39 41N34	D 9	1	1.00	50	5	0000–2400	
16		CARRARA	I	10E06 44N05	D 9	1	1.00	50	5	0000–2400	
17		CATANZARO	I	16E35 38N54	D 9	1	1.00	50	5	0000–2400	
18		COSENZA	I	16E15 39N18	D 9	1	1.00	50	5	0000–2400	
19		FROSINONE	I	13E22 41N39	D 9	1	1.00	50	5	0000–2400	
20		LIVORNO	I	10E19 43N33	D 9	1	1.00	50	5	0000–2400	
21		MACERATA	I	13E28 43N18	D 9	1	1.00	50	5	0000–2400	
22		MATERA	I	16E37 40N39	D 9	1	1.00	50	5	0000–2400	
23		NUORO	I	09E20 40N19	D 9	1	1.00	50	5	0000–2400	
24		PERUGIA	I	12E23 43N07	D 9	1	1.00	50	5	0000–2400	
25		POTENZA	I	15E48 40N38	D 9	1	1.00	50	5	0000–2400	
26		SIRACUSA	I	15E18 37N03	D 9	1	1.00	50	5	0000–2400	
27		TERNI	I	12E39 42N34	D 9	1	1.00	50	5	0000–2400	
28		TRENTO	I	11E08 46N05	D 9	1	1.00	50	5	0000–2400	
29		VITERBO	I	12E07 42N24	D 9	1	1.00	50	5	0000–2400	
30		ADILABAD	IND	78E30 19N48	A20	1		100	3	0000–2400	
31		AGARTALA	IND	91E23 23N50	A20	1		100	3	0000–2400	
32		AGRA	IND	78E05 27N10	A20	1		100	3	0000–2400	
33		AHMEDABAD	IND	72E38 23N02	A20	1		100	3	0000–2400	
34		AHMEDNAGAR	IND	74E48 19N05	A20	1		100	3	0000–2400	
35		AHWA	IND	73E35 20N50	A20	1		100	3	0000–2400	
36		AIJAL	IND	92E43 23N43	A20	1		100	4	0000–2400	
37		AJMER	IND	74E42 26N27	A20	1		100	4	0000–2400	
38		AKOLA	IND	77E02 20N42	A20	1		100	3	0000–2400	
39		ALEPPEY	IND	76E23 09N30	A20	1		100	4	0000–2400	
40		ALIBAGH	IND	72E54 18N40	A20	1		100	4	0000–2400	
41		ALIGARH	IND	78E06 27N54	A20	1		100	3	0000–2400	
42		ALIPORE	IND	88E20 22N30	A20	1		100	4	0000–2400	
43		ALLAHABAD	IND	81E54 25N28	A20	1		100	3	0000–2400	
44		ALMORA	IND	79E38 29N35	A20	1		100	4	0000–2400	
45		ALONG	IND	94E50 28N10	A20	1		100	4	0000–2400	
46		ALWAR	IND	76E38 27N34	A20	1		100	4	0000–2400	
47		AMARPUR	IND	91E40 23N32	A20	1		100	3	0000–2400	
48		AMBALA	IND	77E55 30N40	A20	1		100	4	0000–2400	
49		AMBIKAPUR	IND	83E04 23N10	A20	1		100	4	0000–2400	
50		AMRAVATI	IND	77E47 20N56	A20	1		100	3	0000–2400	
51		AMRELI	IND	71E10 21N40	A20	1		100	3	0000–2400	
52		AMRITSAR	IND	74E50 31N30	A20	1		100	4	0000–2400	
53		ANANTAPUR	IND	77E35 14N40	A20	1		100	3	0000–2400	
54		ANANTNAG	IND	75E10 33N25	A20	1		100	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1485	ANINI	IND	95E52 28N40	A20	1		100	4	0000–2400	
2	(107)	ARRAH	IND	84E50 25N30	A20	1		100	3	0000–2400	
3		AURANGABAD	IND	75E18 19N54	A20	1		100	3	0000–2400	
4		AZAMGARH	IND	83E13 26N03	A20	1		100	4	0000–2400	
5		BADAUN	IND	79E10 28N03	A20	1		100	3	0000–2400	
6		BAHRAICH	IND	81E38 27N34	A20	1		100	4	0000–2400	
7		BALAGHAT	IND	80E20 21N50	A20	1		100	4	0000–2400	
8		BALASORE	IND	86E54 21N30	A20	1		100	3	0000–2400	
9		BALLIA	IND	84E11 25N44	A20	1		100	4	0000–2400	
10		BALURGHAT	IND	88E47 25N14	A20	1		100	4	0000–2400	
11		BANDA	IND	80E22 25N20	A20	1		100	4	0000–2400	
12		BANGALORE	IND	77E38 12N58	A20	1		100	3	0000–2400	
13		BANKURA	IND	87E12 23N15	A20	1		100	4	0000–2400	
14		BANSWARA	IND	74E25 23N35	A20	1		100	3	0000–2400	
15		BARABANKI	IND	82E12 26N56	A20	1		100	4	0000–2400	
16		BARAMULA	IND	74E45 34N30	A20	1		100	3	0000–2400	
17		BARIPADA	IND	86E45 21N58	A20	1		100	3	0000–2400	
18		BARMER	IND	71E18 25N45	A20	1		100	4	0000–2400	
19		BARODA	IND	73E16 22N17	A20	1		100	3	0000–2400	
20		BASTI	IND	82E46 26N48	A20	1		100	4	0000–2400	
21		BELGAUM	IND	74E30 15N50	A20	1		100	3	0000–2400	
22		BELLARY	IND	77E00 15N00	A20	1		100	3	0000–2400	
23		BERHAMPUR	IND	88E30 24N08	A20	1		100	4	0000–2400	
24		BETUL	IND	77E50 21N50	A20	1		100	3	0000–2400	
25		BHAGALPUR	IND	87E02 25N15	A20	1		100	3	0000–2400	
26		BHANDARA	IND	79E42 21N09	A20	1		100	3	0000–2400	
27		BHARATPUR	IND	77E30 27N15	A20	1		100	3	0000–2400	
28		BHATINDA	IND	74E55 30N20	A20	1		100	3	0000–2400	
29		BHAVANI PATNA	IND	83E18 19N54	A20	1		100	3	0000–2400	
30		BHAVNAGAR	IND	72E15 21N40	A20	1		100	3	0000–2400	
31		BHILWARA	IND	74E40 25N21	A20	1		100	3	0000–2400	
32		BHIND	IND	78E40 27N00	A20	1		100	3	0000–2400	
33		BHOPAL	IND	77E29 23N16	A20	1		100	3	0000–2400	
34		BHUBANESWAR	IND	85E52 20N15	A20	1		100	3	0000–2400	
35		BHUJ	IND	69E43 23N15	A20	1		100	3	0000–2400	
36		BIDAR	IND	77E30 17N50	A20	1		100	3	0000–2400	
37		BIJAPUR	IND	75E30 16N50	A20	1		100	3	0000–2400	
38		BIJNOR	IND	78E11 29N23	A20	1		100	3	0000–2400	
39		BIKANER	IND	73E22 28N01	A20	1		100	4	0000–2400	
40		BILASPUR	IND	82E10 22N10	A20	1		100	3	0000–2400	
41		BIR	IND	75E46 18N59	A20	1		100	3	0000–2400	
42		BOLANGIR	IND	83E30 20N45	A20	1		100	3	0000–2400	
43		BOMBAY	IND	72E54 18N53	A20	1		100	3	0000–2400	
44		BOMDILA	IND	92E30 27N20	A20	1		100	4	0000–2400	
45		BROACH	IND	73E01 21N41	A20	1		100	3	0000–2400	
46		BULANDSHAHR	IND	77E54 28N24	A20	1		100	3	0000–2400	
47		BULDANA	IND	76E10 21N05	A20	1		100	3	0000–2400	
48		BULSAR	IND	72E50 20N40	A20	1		100	3	0000–2400	
49		BUNDI	IND	75E41 25N27	A20	1		100	3	0000–2400	
50		BURDWAN	IND	87E50 23N15	A20	1		100	3	0000–2400	
51		CANNANORE	IND	75E36 11N54	A20	1		100	4	0000–2400	
52		CHAIBASA	IND	85E50 22N45	A20	1		100	3	0000–2400	
53		CHAMOLI	IND	78E30 30N20	A20	1		100	4	0000–2400	
54		CHANDA	IND	79E20 19N58	A20	1		100	3	0000–2400	

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	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1485	CHAPRA	IND	84E50 25N45	A20	1		100	3	0000–2400	
2	(107)	CHHATARPUR	IND	79E33 24N52	A20	1		100	3	0000–2400	
3		CHINDWARA	IND	78E55 22N05	A20	1		100	4	0000–2400	
4		CHINGLEPUT	IND	80E01 12N42	A20	1		100	3	0000–2400	
5		CHINSURA	IND	88E25 22N55	A20	1		100	4	0000–2400	
6		CHITORGARH	IND	74E50 24N50	A20	1		100	3	0000–2400	
7		CHITRADURGA	IND	76E20 14N10	A20	1		100	3	0000–2400	
8		CHITTOOR	IND	79E10 13N15	A20	1		100	3	0000–2400	
9		CHURACHANDPUR	IND	93E40 24N20	A20	1		100	4	0000–2400	
10		CHURU	IND	74E58 28N18	A20	1		100	4	0000–2400	
11		COIMBATORE	IND	77E06 11N00	A20	1		100	4	0000–2400	
12		COOCH BEHAR	IND	89E25 26N30	A20	1		100	4	0000–2400	
13		CUDDALORE	IND	79E49 11N43	A20	1		100	3	0000–2400	
14		CUDDAPAH	IND	78E49 14N29	A20	1		100	3	0000–2400	
15		CUTTACK	IND	85E55 20N35	A20	1		100	3	0000–2400	
16		DAKAONK	IND	93E41 07N02	A20	1		100	4	0000–2400	
17		DALTONGANJ	IND	84E05 24N05	A20	1		100	3	0000–2400	
18		DAMOH	IND	79E29 23N50	A20	1		100	3	0000–2400	
19		DARBHANGA	IND	85E56 26N09	A20	1		100	3	0000–2400	
20		DARJEELING	IND	88E20 27N15	A20	1		100	4	0000–2400	
21		DATIA	IND	78E30 25N30	A20	1		100	4	0000–2400	
22		DEHRA DUN	IND	78E04 30N19	A20	1		100	4	0000–2400	
23		DELHI	IND	77E12 28N38	A20	1		100	3	0000–2400	
24		DEORIA	IND	83E42 26N33	A20	1		100	3	0000–2400	
25		DEWAS	IND	76E00 21N50	A20	1		100	4	0000–2400	
26		DHANBAD	IND	86E24 23N48	A20	1		100	3	0000–2400	
27		DHAR	IND	75E10 22N30	A20	1		100	3	0000–2400	
28		DHARMAPURI	IND	78E13 12N08	A20	1		100	3	0000–2400	
29		DHARWAR	IND	74E59 15N27	A20	1		100	3	0000–2400	
30		DHENKANAL	IND	85E40 20N44	A20	1		100	3	0000–2400	
31		DHULIA	IND	74E47 20N58	A20	1		100	3	0000–2400	
32		DIBRUGARH	IND	94E58 27N29	A20	1		100	3	0000–2400	
33		DIPHU	IND	93E20 25N50	A20	1		100	3	0000–2400	
34		DIU	IND	71E01 20N42	A20	1		100	4	0000–2400	
35		DNHAVELI	IND	73E00 20N05	A20	1		100	3	0000–2400	
36		DODA	IND	75E20 33N40	A20	1		100	4	0000–2400	
37		DUMKA	IND	87E20 24N30	A20	1		100	3	0000–2400	
38		DUNGARPUR	IND	73E36 23N48	A20	1		100	4	0000–2400	
39		HISSAR	IND	75E48 29N00	A20	1		100	4	0000–2400	
40		PALGHAT	IND	76E42 10N48	A20	1		100	4	0000–2400	
41		RAISEN	IND	77E40 23N20	A20	1		100	3	0000–2400	
42		VIDISHA	IND	77E50 23N30	A20	1		100	3	0000–2400	
43		AMBON	INS	128E10 03S41	A18	0.5	0.50	25	4	0000–2400	
44		BANDJARMASIN	INS	114E33 03S22	A18	0.5	0.50	25	4	0000–2400	
45		BANDUNG	INS	107E36 06S55	A18	0.5	0.50	75	3	0000–2400	
46		BANGIL	INS	112E46 07S36	A18	0.5	0.50	25	4	0000–2400	
47		BANJUWANGI	INS	114E23 08S13	A18	0.5	0.50	25	4	0000–2400	
48		BENGKULU	INS	102E20 03S46	A18	0.5	0.50	25	4	0000–2400	
49		BIAK	INS	136E04 01S11	A18	0.5	0.50	25	4	0000–2400	
50		BOGOR SEMPLAK	INS	106E47 06S35	A18	0.5	0.50	25	4	0000–2400	
51		BOJONEGORO	INS	111E03 07S09	A18	0.5	0.50	75	3	0000–2400	
52		BONDOWOSO	INS	113E49 07S54	A18	0.5	0.50	25	4	0000–2400	
53		BUKITTINGGI	INS	100E32 00S18	A18	0.5	0.50	75	3	0000–2400	
54		CIANJUR	INS	107E18 06S49	A18	0.5	0.50	25	4	0000–2400	

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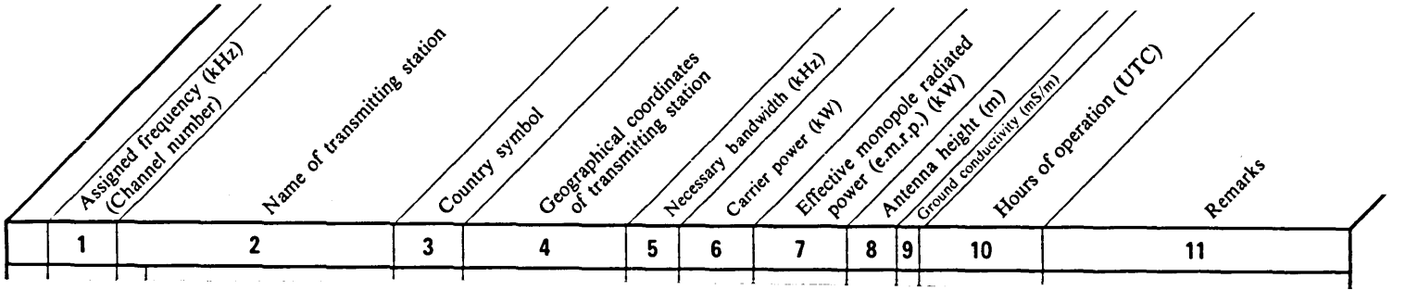
	1	2	3	4	5	6	7	8	9	10	11

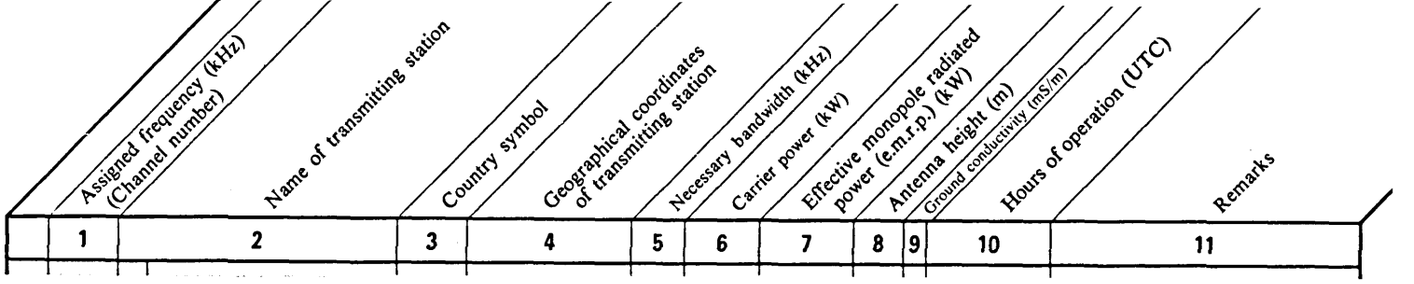
	1	2	3	4	5	6	7	8	9	10	11
1	1485	CIKAMPEK	INS	107E28 06S25	A18	0.5	0.50	25	4	0000–2400	
2	(107)	DENPASAR	INS	115E13 08S39	A18	0.5	0.50	25	4	0000–2400	
3		DJAKARTA	INS	106E50 06S10	A18	0.5	0.50	25	4	0000–2400	
4		DJEMBER	INS	113E42 08S10	A18	0.5	0.50	75	3	0000–2400	
5		FAKFAK	INS	132E17 02S55	A18	0.5	0.50	25	4	0000–2400	
6		GARUT	INS	107E53 06S42	A18	0.5	0.50	75	3	0000–2400	
7		GRESIK	INS	112E39 07S09	A18	0.5	0.50	75	3	0000–2400	
8		KALIUNGU	INS	110E14 06S57	A18	0.5	0.50	25	4	0000–2400	
9		KEDIRI	INS	112E02 07S53	A18	0.5	0.50	25	4	0000–2400	
10		KENDAL	INS	110E12 06S55	A18	0.5	0.50	75	3	0000–2400	
11		KENDARI	INS	122E36 03S57	A18	0.5	0.50	25	4	0000–2400	
12		KLATEN	INS	110E36 07S42	A18	0.5	0.50	75	3	0000–2400	
13		KLUNGKUNG	INS	115E24 08S32	A18	0.5	0.50	75	3	0000–2400	
14		KRAWANG	INS	107E17 06S18	A18	0.5	0.50	25	4	0000–2400	
15		MADIUN	INS	111E31 07S37	A18	0.5	0.50	75	3	0000–2400	
16		MAGELANG	INS	110E12 07S30	A18	0.5	0.50	75	3	0000–2400	
17		MAJALENGKA	INS	108E13 06S50	A18	0.5	0.50	25	4	0000–2400	
18		MALANG	INS	112E37 07S59	A18	0.5	0.50	25	4	0000–2400	
19		MEDAN	INS	98E40 03N30	A18	0.5	0.50	25	4	0000–2400	
20		MENADO	INS	124E55 01N32	A18	0.5	0.50	75	3	0000–2400	
21		PADANG	INS	100E23 00S57	A18	0.5	0.50	25	4	0000–2400	
22		PALENGKARAJA	INS	113E11 02S02	A18	0.5	0.50	25	4	0000–2400	
23		PALU	INS	119E53 00S54	A18	0.5	0.50	25	4	0000–2400	
24		PANDJANG	INS	105E22 05S33	A18	0.5	0.50	75	3	0000–2400	
25		PASURUAN	INS	112E54 07S38	A18	0.5	0.50	25	4	0000–2400	
26		PATI	INS	111E02 06S45	A18	0.5	0.50	25	4	0000–2400	
27		PAYAHKUMBUH	INS	100E38 00S13	A18	0.5	0.50	25	4	0000–2400	
28		PEKALONGAN	INS	109E40 06S53	A18	0.5	0.50	75	3	0000–2400	
29		PLADJU	INS	104E49 03S00	A18	0.5	0.50	75	3	0000–2400	
30		PONOROGO	INS	111E28 07S52	A18	0.5	0.50	25	4	0000–2400	
31		PONTIANAK	INS	109E20 00S05	A18	0.5	0.50	25	4	0000–2400	
32		PROBOLINGGO	INS	113E13 07S45	A18	0.5	0.50	75	3	0000–2400	
33		PURWOKERTO	INS	109E15 07S26	A18	0.5	0.50	25	4	0000–2400	
34		PURWOREJO	INS	110E30 07S43	A18	0.5	0.50	25	4	0000–2400	
35		RANGKASBITUNG	INS	106E15 06S22	A18	0.5	0.50	75	3	0000–2400	
36		SAMARINDA	INS	117E09 00S30	A18	0.5	0.50	25	4	0000–2400	
37		SEMARANG	INS	110E25 06S58	A18	0.5	0.50	25	4	0000–2400	
38		SENKANG	INS	119E39 05S02	A18	0.5	0.50	25	4	0000–2400	
39		SERANG	INS	106E09 06S07	A18	0.5	0.50	75	3	0000–2400	
40		SIBOLGA	INS	98E48 01N42	A18	0.5	0.50	25	4	0000–2400	
41		SIDOARJO	INS	112E43 07S28	A18	0.5	0.50	25	4	0000–2400	
42		SINGARADJA	INS	115E05 08S06	A18	0.5	0.50	25	4	0000–2400	
43		SOLOK SUMATRA	INS	100E39 00S48	A18	0.5	0.50	25	4	0000–2400	
44		SORONG	INS	131E17 00S50	A18	0.5	0.50	25	4	0000–2400	
45		SUBANG	INS	107E45 06S34	A18	0.5	0.50	75	3	0000–2400	
46		SUKABUMI	INS	106E55 06S50	A18	0.5	0.50	25	4	0000–2400	
47		SUMENEP	INS	113E51 07S00	A18	0.5	0.50	75	3	0000–2400	
48		SURABAJA	INS	112E45 07S15	A18	0.5	0.50	25	4	0000–2400	
49		SURAKARTA	INS	110E49 07S34	A18	0.5	0.50	25	4	0000–2400	
50		TANDJUNGKARANG	INS	105E15 05S24	A18	0.5	0.50	75	3	0000–2400	
51		TASIKMALAJA	INS	108E13 07S19	A18	0.5	0.50	25	4	0000–2400	
52		TEGAL	INS	109E08 06S52	A18	0.5	0.50	25	4	0000–2400	
53		TEMANGGUNG	INS	110E10 07S19	A18	0.5	0.50	25	4	0000–2400	
54		TERNATE	INS	127E23 00N48	A18	0.5	0.50	25	4	0000–2400	



	1	2	3	4	5	6	7	8	9	10	11
1	1485	TJIAMIS	INS	108E20 07S19	A18	0.5	0.50	25	4	0000–2400	
2	(107)	TJIREBON	INS	108E34 06S42	A18	0.5	0.50	75	3	0000–2400	
3		TOMOHON	INS	124E50 01N19	A18	0.5	0.50	75	3	0000–2400	
4		TONDANO	INS	124E45 01N22	A18	0.5	0.50	25	4	0000–2400	
5		UJUNGPANDANG	INS	119E25 05S09	A18	0.5	0.50	25	4	0000–2400	
6		WONOSOBO	INS	109E59 07S21	A18	0.5	0.50	75	3	0000–2400	
7		BALLAGAN POINT	IRL	06W06 54N00	A20	1	1.00	10	4	0000–2400	49/5
8		CARNSORE POINT	IRL	06W22 52N10	A20	1	1.00	10	4	0000–2400	49/5
9		ERRIS HEAD	IRL	10W00 54N18	A20	1	1.00	10	4	0000–2400	49/5
10		MALIN HEAD	IRL	07W24 55N22	A20	1	1.00	10	4	0000–2400	49/5
11		MIZEN HEAD	IRL	09W49 51N27	A20	1	1.00	10	4	0000–2400	49/5
12		ABADEH	IRN	52E50 29N08	A20	1	1.00	50	5	0200–2200	
13		BAM	IRN	58E22 29N08	A20	1			3	0100–2200	
14		DAMGHAN	IRN	54E22 36N09	A20	1	1.00	50	4	0200–2200	
15		DARREH GAZ	IRN	59E08 37N22	A20	1	1.00	50	4	0200–2200	
16		DEZFUL	IRN	48E23 32N26	A20	1	1.00	50	4	0200–2200	
17		JAHROM	IRN	53E32 28N20	A20	1	1.00	50	5	0200–2200	
18		JOLFA	IRN	45E38 38N57	A20	1			3	0100–2200	
19		MALAYER	IRN	48E45 34N20	A20	1	1.00	50	4	0200–2200	
20		MIANEH	IRN	47E42 37N27	A20	1	1.00	55	3	0200–2100	
21		NAIN	IRN	53E05 32N52	A20	1	1.00	50	4	0200–2200	
22		SABZEVAR	IRN	56E60 36N10	A20	1	1.00	50	4	0200–2200	
23		SANANDAJ	IRN	47E01 35N18	A20	1	1.00	50	4	0200–2200	
24		SHAHREKORD	IRN	52E34 31N10	A20	1	1.00	50	4	0200–2200	
25		KEFLAVIK	ISL	22W37 64N00	A10	0.3	0.19	21	4	0000–2400	
26		ATLIT	ISR	34E58 32N45	A 9	1	1.00	40	3	0000–2400	
27		SEDOM	ISR	35E23 31N10	A 9	1	1.00	40	4	0000–2400	
28		ASAMAI	J	140E30 39N15	A15	0.1	0.13	66	5	0000–2400	
29		ENA	J	137E27 35N27	A15	0.1	0.13	67	5	0000–2400	
30		FUKAURA	J	139E55 40N38	A15	0.1	0.13	67	5	0000–2400	
31		FUKUCHIYAMA	J	135E08 35N18	A15	0.1	0.13	58	5	0000–2400	
32		GERO	J	137E14 35N49	A15	0.1	0.13	68	5	0000–2400	
33		HACHINOHE	J	141E28 40N30	A15	1	1.00	51	5	0000–2400	
34		HAGI	J	131E25 34N25	A15	1	1.00	51	5	0000–2400	
35		HASHIMOTO	J	135E35 34N18	A15	0.1	0.10	48	5	0000–2400	
36		KARATSU	J	129E59 33N28	A15	0.1	0.13	67	5	0000–2400	
37		KARUIZAWA	J	138E37 36N20	A15	0.1	0.13	45	5	0000–2400	
38		KITAMI	J	143E52 43N49	A15	0.1	0.10	50	4	0000–2400	
39		KUMANO	J	136E05 33N52	A15	0.1	0.13	69	5	0000–2400	
40		MIYOSHI	J	132E51 34N48	A15	0.1	0.16	76	5	0000–2400	
41		NASU	J	139E58 36N53	A15	0.1	0.16	88	5	0000–2400	
42		NICHINAN	J	131E23 31N37	A15	0.1	0.13	67	5	0000–2400	
43		OBIHIRO	J	143E12 42N57	A15	0.1	0.20	83	4	0000–2400	
44		ODAWARA	J	139E10 35N18	A15	0.1	0.10	50	5	0000–2400	
45		OFUNATO	J	141E45 39N02	A15	0.1	0.13	67	5	0000–2400	
46		OMUTA	J	130E26 33N02	A15	0.1	0.10	48	5	0000–2400	
47		SHIOZAWA	J	138E51 37N01	A15	0.1	0.20	85	5	0000–2400	
48		TAKACHIHO	J	131E19 32N42	A15	0.1	0.13	67	5	0000–2400	
49		TAKAYAMA	J	137E16 36N09	A15	0.1	0.13	54	5	0000–2400	
50		TOTTORI	J	134E14 35N29	A15	0.1	0.13	58	5	0000–2400	
51		TOYOHASHI	J	137E24 34N45	A15	0.1	0.13	53	5	0000–2400	
52		UENO	J	136E07 34N45	A15	0.1	0.13	68	5	0000–2400	
53		YAMANAKA	J	136E22 36N14	A15	0.1	0.10	31	5	0000–2400	
54		YONEZAWA	J	140E05 37N56	A15	0.1	0.13	56	5	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

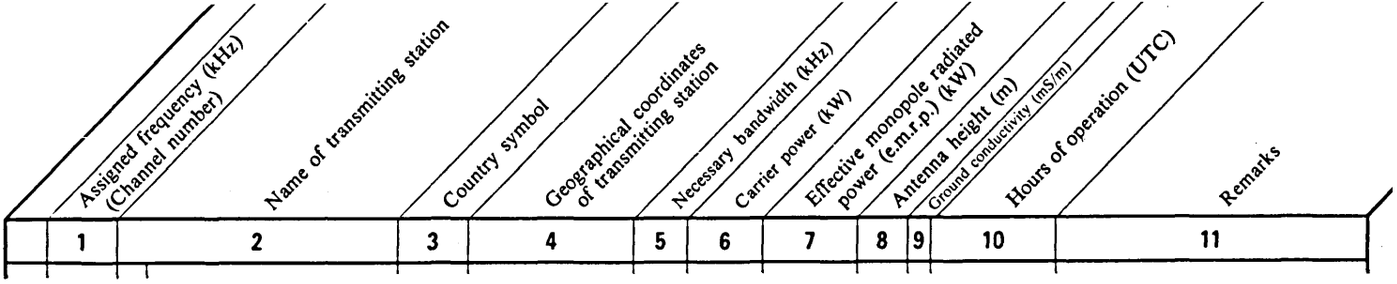
	1	2	3	4	5	6	7	8	9	10	11
1	1485	YUKUHASHI	J	131E01 33N44	A15	0.1	0.13	62	5	0000–2400	
2	(107)	GALOLE	KEN	40E02 01S30	A 9	1	1.00	50	4	0200–2100	
3		KITUI	KEN	38E00 01S22	A 9	1	1.00	50	4	0200–2100	
4		LODWAR	KEN	35E35 03N05	A 9	1		130	4	0200–2100	
5		WAJIR	KEN	40E02 01N42	A 9	1		100	4	0200–2100	
6		GUNWI	KOR	128E33 36N14	A10	1	1.00	120	6	0000–2400	
7		JANGSEONG	KOR	129E00 37N01	A10	1	1.00	80	4	0000–2400	
8		KAPSAN	KRE	128E16 41N05	A16	0.1	0.10	30		2000–1800	
9		KUWAIT	KWT	48E20 29N34	A 9	1	1.00	50	8	0000–2400	
10		BRAK	LBY	14E10 27N45	A20	1	1.00	47	5	0400–2400	
11		EL MARG	LBY	21E00 32N00	A20	1	1.00	47	5	0400–2400	
12		EL THAHRA	LBY	17E50 29N20	A20	1	1.00	47	5	0400–2400	
13		ELBREGA	LBY	19E30 30N10	A20	1	1.00	47	5	0400–2400	
14		JEFREN	LBY	12E31 32N03	A20	1	1.00	100	6	0400–2400	
15		SAMAH	LBY	19E10 28N10	A20	1	1.00	47	5	0400–2400	
16		ZAGOUT	LBY	17E20 28N20	A20	1	1.00	47	5	0400–2400	
17		CUREPIPE	MAU	57E31 20S19	A20	1	1.00	50	4	0000–2400	
18		ANOSIBE	MDG	48E12 19S26	A 9	1	1.00	73	4	0300–2000	
19		ANTALAHA	MDG	50E15 14S54	A 9	1	1.00	50	4	0300–2000	
20		ANTSALOVA	MDG	44E38 18S40	A 9	1	1.00	86	4	0300–2000	
21		BEFANDRIANA	MDG	48E30 15S12	A 9	1	1.00	47	4	0300–2000	
22		BEKILY	MDG	45E19 24S16	A 9	1	1.00	114	4	0300–2000	
23		BESALAMPY	MDG	44E29 16S45	A 9	1	1.00	60	4	0300–2000	
24		FANDRIANA	MDG	47E22 20S14	A 9	1	1.00	87	4	0300–2000	
25		FARATSIHO	MDG	46E56 19S24	A 9	1	1.00	47	4	0300–2000	
26		FENERIVE EST	MDG	49E26 17S22	A 9	1	1.00	47	4	0300–2000	
27		IHOSY	MDG	46E07 22S24	A 9	1	1.00	59	4	0300–2000	
28		MAROVOAY	MDG	46E38 16S08	A 9	1	1.00	50	4	0300–2000	
29		MIARINARIVO	MDG	46E54 18S57	A 9	1	1.00	50	4	0300–2000	
30		MOROMBE	MDG	43E23 21S47	A 9	1	1.00	47	4	0300–2000	
31		MORONDAVA	MDG	44E18 20S17	A 9	1	1.00	101	4	0300–2000	
32		PT BERGE	MDG	47E35 15S35	A 9	1	1.00	177	4	0300–2000	
33		SAKARAHA	MDG	44E32 22S55	A 9	1	1.00	47	4	0300–2000	
34		TSARATANANA	MDG	47E40 16S48	A 9	1	1.00	82	4	0300–2000	
35		VANGAINDRANO	MDG	47E35 23S20	A 9	1	1.00	47	4	0300–2000	
36		FUNCHAL	MDR	16W55 32N43	A20	1	1.00	50	4	0000–2400	
37		KUALA ROMPIN	MLA	103E25 02N52	A20	1	1.00	50	5	2200–1700	
38		SLIM RIVER	MLA	101E25 03N50	A20	1	1.00	50	5	2200–1700	
39		BAFOULABE	MLI	10W50 13N48	A 9	1		101		0600–2400	
40		GOURMA RHAROUS	MLI	01W55 16N52	A 9	1		48		0600–2400	
41		KOUTIALA	MLI	05W28 12N23	A 9	1		152		0600–2400	
42		NARA	MLI	07W17 15N10	A 9	1		65		0600–2400	
43		BUGIBBA	MLT	14E25 35N57	D 9	1	1.00	50	4	0000–2400	
44		ALTAI	MNG	96E10 46N30	A18	1	1.00	120	5	2200–1500	
45		ARWAIHER	MNG	102E20 46N20	A18	1	1.00	120	5	2200–1500	
46		BAIANHONGOR	MNG	100E40 46N10	A18	1	1.00	120	5	2200–1500	
47		BARUNURT	MNG	113E20 46N40	A18	1	1.00	120	4	2200–1500	
48		BULAGAN	MNG	103E20 48N50	A18	1	1.00	120	5	2200–1500	
49		DALANTSZADAGAD	MNG	104E30 43N38	A18	1	1.00	120	4	2200–1500	
50		DARHAN	MNG	106E00 49N00	A18	1	1.00	120	4	2200–1500	
51		KOBDO	MNG	91E48 48N10	A18	1	1.00	120	5	2200–1500	
52		MANDAL GOBI	MNG	106E10 45N40	A18	1	1.00	120	4	2200–1500	
53		MUREN	MNG	100E10 49N30	A18	1	1.00	120	5	2200–1500	
54		SAINSHAND	MNG	110E05 44N50	A18	1	1.00	120	4	2200–1500	



	1	2	3	4	5	6	7	8	9	10	11
1	1485	SUHE BATOR	MNG	113E10 46N50	A18	1	1.00	120	4	2200–1500	
2	(107)	TCHOIBOLSAN	MNG	114E30 48N05	A18	1	1.00	120	4	2200–1500	
3		TSETSERLIG	MNG	101E10 47N30	A18	1	1.00	120	5	2200–1500	
4		UBURKHANGAI	MNG	102E20 46N20	A18	1	1.00	120	5	2200–1500	
5		ULAN BATOR	MNG	107E00 47N55	A18	1	1.00	120	4	2200–1500	
6		ULAN GOM	MNG	92E00 50N00	A18	1	1.00	120	5	2200–1500	
7		ULGEI	MNG	89E48 49N08	A18	1	1.00	120	5	2200–1500	
8		ULIASUTAI	MNG	96E50 47N40	A18	1	1.00	120	5	2200–1500	
9		UNDERHAN	MNG	102E55 46N10	A18	1	1.00	120	4	2200–1500	
10		FINGOE	MOZ	31E45 15S08	A10	0.5				0400–2200	
11		NOVA FREIXO	MOZ	36E30 14S39	A10	1	1.00	34	4	0400–2200	
12		CASABLANCA	MRC	07W36 33N36	A18	1	1.00	80	4	0600–2400	
13		OUJDA	MRC	01W51 34N40	A12	1	1.00	50	4	0600–2400	
14		ZAGORA	MRC	05W23 30N10	A20	0.1	0.10	50	6	0600–2400	
15		SHARPEVALE	MWI	34E45 14S30	A20	1	1.00	92	3	0200–2300	
16		GAYA	NGR	03E30 11N50	A 9	1			4	0000–2400	
17		IFEROUANE	NGR	08E00 19N10	A 9	0.1			4	0000–2400	
18		MALBAZA	NGR	05E29 13N58	A 9	1	1.00	47	4	0000–2400	
19		TESSAOUA	NGR	08E00 13N50	A 9	1			4	0000–2400	
20		AWKA	NIG	07E03 06N15	C 9	1	1.00	83	4	0500–2200	
21		DEGEMA	NIG	06E35 04N35	C 9	1	1.00	60	4	0500–2300	
22		HADIJA	NIG	10E02 12N27	C 9	1	1.00	70	4	0500–2300	
23		ILORIN	NIG	04E32 08N30	C 9	1	1.00	71	4	0500–2300	
24		LONGYEARBYEN	NOR	15E35 78N13	D 9	1	1.00	48	6	0000–2400	
25		BAJURA	NPL	81E22 29N22	A20	1	0.50	60	5	2200–1900	
26		GORKHA	NPL	84E38 28N02	A20	1	0.50	60	5	2200–1900	
27		KAIGAON	NPL	82E48 29N02	A20	1	0.50	60	5	2200–1900	
28		RAMECHHAP	NPL	86E04 27N20	A20	1	0.50	60	5	2200–1900	
29		TWIZEL	NZL	170E03 44S15	A20	1	1.00	30	6	0000–2400	
30		BANNU	PAK	70E47 33N00	A20	1	0.79	60	4	0000–2000	
31		LAR	PAK	71E30 30N00	A20	1	0.79	48	3	0000–1400	
32		LARKANA	PAK	68E15 27N30	A20	1	0.79	50	4	0000–2000	
33		MIR JAWA	PAK	61E35 29N50	A20	1	0.79	141	4	0000–2400	
34		BAGUIO CITY	PHL	120E36 16N23	A 9	1	1.00	63	3	2100–1600	
35		KALIBO AKLAN	PHL	122E19 11N41	A 9	1	1.00	62	3	2100–1600	
36		BIELSKO BIALA	POL	19E02 49N49	A20	1	1.00	50	5	0000–2400	
37		BILGORAJ	POL	22E44 50N32	A20	1	1.00	50	5	0000–2400	
38		CEDYNIA	POL	14E12 52N53	A20	1	1.00	50	5	0000–2400	
39		CHMIELNIK	POL	20E45 50N39	A20	1	1.00	50	5	0000–2400	
40		DRAWSKO POMORS	POL	15E49 53N32	A20	1	1.00	50	5	0000–2400	
41		GIZYCKO	POL	21E47 54N03	A20	1	1.00	50	5	0000–2400	
42		GORLICE	POL	21E07 49N39	A20	1	1.00	50	5	0000–2400	
43		GOROWO ILAWIEC	POL	20E30 54N17	A20	1	1.00	50	5	0000–2400	
44		GUBIN	POL	14E44 51N57	A20	1	1.00	50	5	0000–2400	
45		KAZIMIERZ	POL	21E58 51N19	A20	1	1.00	50	5	0000–2400	
46		KEPNO	POL	17E59 51N18	A20	1	1.00	50	5	0000–2400	
47		KOLOBRZEG	POL	15E32 54N10	A20	1	1.00	50	5	0000–2400	
48		LEBA	POL	17E34 54N45	A20	1	1.00	50	5	0000–2400	
49		MORAG	POL	19E55 53N51	A20	1	1.00	50	5	0000–2400	
50		OSNO	POL	14E51 52N28	A20	1	1.00	50	5	0000–2400	
51		PRUDNIK	POL	17E34 50N19	A20	1	1.00	50	5	0000–2400	
52		PRZEMYSL	POL	22E47 49N48	A20	1	1.00	50	5	0000–2400	
53		SZCZECINEK	POL	16E42 53N43	A20	1	1.00	50	5	0000–2400	
54		ZAKOPANE	POL	19E59 49N19	A20	1	1.00	50	5	0000–2400	

	1	2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1485	ALTO DOURO	POR	07W28 41N09	A20	1	1.00	50	5	0000–2400	
2	(107)	CARAMULO	POR	08W09 40N34	A20	1	1.00	50	5	0000–2400	
3		RIBATEJO	POR	08W40 39N14	A20	1	1.00	50	3	0000–2400	
4		ALKHAISAH	QAT	51E25 25N25	C 9	1	1.00	50	5	0000–2400	
5		BIRLAD	ROU	27E50 46N35	A20	1	1.00	50	4	0300–2300	
6		BOTOSANI	ROU	26E39 47N44	A20	1	1.00	50	5	0300–2300	
7		BREZOI	ROU	24E13 45N20	A20	1	1.00	50	5	0300–2300	
8		BUZAU	ROU	26E32 45N08	A20	1	1.00	50	5	0300–2300	
9		CIULNITA	ROU	26E52 44N25	A20	1	1.00	50	4	0300–2300	
10		MARGHITA	ROU	22E30 47N25	A20	1	1.00	50	5	0300–2300	
11		MEDGIDIA	ROU	28E22 44N19	A20	1	1.00	50	6	0300–2300	
12		MEDIAS	ROU	25E27 46N05	A20	1	1.00	50	6	0300–2300	
13		PIATRA NEAMT	ROU	26E19 46N51	A20	1	1.00	50	4	0300–2300	
14		SASCUT	ROU	26E50 46N10	A20	1	1.00	50	6	0300–2300	
15		SLATINA	ROU	24E31 44N21	A20	1	1.00	50	4	0300–2300	
16		TARGU MURES	ROU	24E35 46N37	A20	1	1.00	50	5	0300–2300	
17		VISEU	ROU	24E22 47N47	A20	1	1.00	50	5	0300–2300	
18		ABRI	SDN	30E23 20N44	A20	1	1.00	50	3	0400–2400	
19		ABU HAMED	SDN	33E20 19N32	A20	1	1.00	50	3	0400–2400	
20		EDDUEIM	SDN	32E19 13N59	A20	1	1.00	50	2	0400–2400	
21		EL GEDAREF	SDN	35E24 14N02	A20	1	1.00	50	3	0400–2400	
22		ERKOWIT	SDN	37E07 18N45	A20	1	1.00	50	4	0400–2400	
23		KHARTOUM	SDN	32E31 15N36	A20	1	1.00	50	3	0400–2400	
24		RENK	SDN	32E48 11N45	A20	1	1.00	50	3	0400–2400	
25		SINGA	SDN	33E56 13N10	A20	1	1.00	50	4	0400–2400	
26		SODIRI	SDN	29E05 14N25	A20	1	1.00	50	3	0400–2400	
27		THIES	SEN	16W57 14N46	A 9	1	1.26	50	4	0600–0700	
28		SINGAPORE 2	SNG	103E50 01N25	A20	0.5	0.50	50	5	2200–1800	
29		SAVIESE	SUI	07E21 46N15	D 9	1	1.00	42	5	0500–2400	
30		SARAKEB 3	SYR	36E42 35N50	A20	1	1.00	50	5	0300–2400	
31		AM ZOER	TCD	21E23 14N13	A 9	0.1				0400–2300	
32		BITKINE	TCD	18E17 11N59	A 9	0.1				0400–2300	
33		HARAZE DJOMBO	TCD	19E30 13N54	A 9	0.1				0400–2300	
34		MOISSALA	TCD	17E46 08N20	A 9	0.1				0400–2300	
35		MOITO	TCD	16E38 12N35	A 9	0.1				0400–2300	
36		NDOURBALI	TCD	15E51 11N49	A 9	0.1				0400–2300	
37		BRATISLAVA	TCH	17E08 48N09	C 9	1	1.00		5	0000–2400	
38		BRNO MESTO	TCH	16E37 49N12	C 9	1	1.00		5	0000–2400	
39		BRUNTAL	TCH	17E28 50N00	A20	1	0.63	60	5	0000–2400	
40		DECIN	TCH	14E13 50N47	A20	1	0.63	60	5	0000–2400	
41		KOMARNO	TCH	18E17 47N45	A20	1	0.63	60	5	0000–2400	
42		KOSICE MESTO	TCH	21E15 48N43	C 9	1	1.00		5	0000–2400	
43		MEDZILABORCE	TCH	21E54 49N16	C 9	1	1.00	50	5	0000–2400	
44		NACHOD	TCH	16E10 50N25	A20	1	0.63	60	5	0000–2400	
45		OSTRAVA MESTO	TCH	18E18 49N50	C 9	1	1.00		5	0000–2400	
46		PLZEN MESTO	TCH	13E23 49N45	A 9	1	0.48	23	5	0000–2400	
47		PRAHA MESTO	TCH	14E24 50N06	C 9	1	1.00		5	0000–2400	
48		TREBIC	TCH	15E53 49N12	A20	1	0.63	60	5	0000–2400	
49		VRCHLABI	TCH	15E36 50N38	A20	1	0.63	60	5	0000–2400	
50		BABATI	TGK	36E00 04S00	A 9	1	1.00	47	4	0300–2100	
51		KIBONDO	TGK	31E00 04S20	A 9	1	1.00	47	4	0300–2100	
52		MOROGORO	TGK	37E30 06S50	A10	1	1.00	50	4	0300–2100	
53		TUNDURU	TGK	37E30 11S00	A10	1	1.00	50	4	0300–2100	
54		SOTOBOUA	TGO	01E06 08N00	A 9	1	1.00	50	4	0500–2300	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11
1	1485		TABLIGBO	TGO	01E30 06N32	A 9	1	1.00	50	4	0500—2300	
2	(107)		BANGKOK	THA	100E31 13N48	A20	1	1.00	50	2	2300—1700	
3			CHUMPHON	THA	99E12 10N36	A20	1	1.00	50	3	2300—1700	
4			KHON KAEN	THA	102E49 16N27	A20	1	1.00	50	3	2300—1700	
5			N RATCHASIMA	THA	102E00 14N56	A20	1	1.00	50	2	2300—1700	
6			NAKHON SAWAN	THA	100E18 15N16	A20	1	1.00	50	2	2300—1700	
7			PHITSANULOK	THA	100E22 16N49	A20	1	1.00	50	2	2300—1700	
8			SATUL	THA	99E55 06N50	A20	1	1.00	50	3	2300—1700	
9			SURAT THANI	THA	99E18 09N07	A20	1	1.00	30	3	2300—1500	
10			TRANG	THA	99E37 07N32	A20	1	1.00	50	3	2300—1700	
11			YALA	THA	101E17 06N32	A20	1	1.00	30	3	2300—1400	
12			BEJA	TUN	09E20 36N45	D20	1	1.00	51	4	0000—2400	
13			BIZERTE	TUN	09E50 37N15	D20	1	1.00	51	4	0000—2400	
14			KERKENNA	TUN	11E05 34N50	D20	1	1.00	51	4	0000—2400	
15			MEDENINE	TUN	10E30 33N20	D20	1	1.00	51	4	0000—2400	
16			MONASTIR	TUN	10E09 35N50	D20	1	1.00	51	4	0000—2400	
17			NEFTA	TUN	07E50 33N50	D20	1	1.00	51	4	0000—2400	
18			SELIANA	TUN	09E00 36N02	D20	1	1.00	51	4	0000—2400	
19			CESME	TUR	26E30 38N18	A20	1	1.00	43	4	0200—2300	
20			HAKKARI	TUR	43E43 37N36	A20	1	1.00	43	4	0200—2300	
21			KAS	TUR	29E41 36N13	A20	1	1.00	43	4	0200—2300	
22			ORDU	TUR	37E52 41N00	A20	1	1.00	43	4	0200—2300	
23			RIZE	TUR	40E30 41N02	A20	1	1.00	43	4	0200—2300	
24			ARUA	UGA	31E15 03N15	A 9	1	1.00	47	4	0300—2100	
25			JJINJA	UGA	33E14 00N30	A 9	1	1.00	47	4	0300—2100	
26			MASAKA	UGA	32E00 00S10	A 9	1	1.00	47	4	0300—2100	
27			DNEPROPETROVSK	UKR	35E44 48N48	A20	1	1.00	120	4	0000—2400	
28			DONETSK	UKR	37E29 47N56	A20	1	1.00	120	4	0000—2400	
29			FEODOSIA	UKR	35E20 45N02	A20	1	1.00	120	4	0000—2400	
30			IALTA	UKR	34E10 44N39	A20	1	1.00	120	4	0000—2400	
31			IZIUM	UKR	37E17 49N13	A20	1	1.00	120	4	0000—2400	
32			IZMAIL	UKR	28E51 45N20	A20	1	1.00	120	4	0000—2400	
33			JDANOV	UKR	37E31 47N06	A20	1	1.00	120	4	0000—2400	
34			JITOMIR	UKR	28E37 50N15	A20	1	1.00	120	4	0000—2400	
35			KAMYCH ZARIA	UKR	36E35 45N20	A20	1	1.00	120	4	0000—2400	
36			KHARKOV	UKR	36E14 49N58	A20	1	1.00	120	4	0000—2400	
37		S	KIEV	UKR	30E38 50N27	A16	1	1.00	120	4	0000—2400	
38			KIROVOGRAD	UKR	32E20 48N30	A20	1	1.00	120	4	0000—2400	
39			KOVEL	UKR	24E41 51N16	A20	1	1.00	120	4	0000—2400	
40			KRIVOI ROG	UKR	33E25 47N55	A20	1	1.00	120	4	0000—2400	
41			LUTSK	UKR	25E20 50N45	A20	1	1.00	120	4	0000—2400	
42			LVOV	UKR	24E00 49N50	A20	1	1.00	120	4	0000—2400	
43			NIKOLAEV	UKR	32E01 46N58	A20	1	1.00	120	4	0000—2400	
44			ODESSA	UKR	30E45 46N29	A20	1	1.00	120	4	0000—2400	
45			PODVOLOTCHISK	UKR	26E10 49N35	A20	1	1.00	120	4	0000—2400	
46			ROVNO	UKR	26E14 50N39	A20	1	1.00	120	4	0000—2400	
47			SIMFEROPOL	UKR	34E06 44N56	A20	1	1.00	120	4	0000—2400	
48			STAROBELSK	UKR	38E34 49N35	A20	1	1.00	120	4	0000—2400	
49			TCHERKASSY	UKR	32E02 49N27	A20	1	1.00	120	4	0000—2400	
50			TCHERNIGOV	UKR	31E19 51N29	A20	1	1.00	120	4	0000—2400	
51			TCHERNOVITSY	UKR	25E55 48N20	A20	1	1.00	120	4	0000—2400	
52			UJGOROD	UKR	22E20 48N38	A20	1	1.00	120	4	0000—2400	
53			VINNITSA	UKR	28E28 49N14	A20	1	1.00	120	4	0000—2400	
54			VOLOTCHISK	UKR	26E12 49N36	A20	1	1.00	120	4	0000—2400	

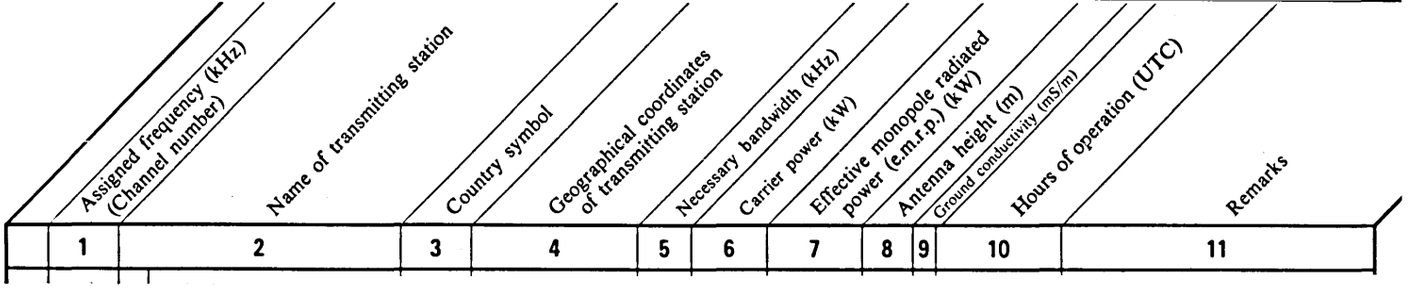


	1		2	3	4	5	6	7	8	9	10	11
1	1485		VOROCHILOVGRAD	UKR	39E15 48N32	A20	1	1.00	120	4	0000–2400	
2	(107)		AFANASIVKA	URS	57E50 56N43	A20	1	1.00	120	4	0000–2400	
3			ALDAN	URS	125E24 58N36	A20	1	1.00	120	4	0000–2400	
4			ALEKSANDROV SA	URS	142E18 50N58	A18	1	1.00	120	4	0000–2400	
5			ALMA ATA	URS	77E00 43N17	A18	1	1.00	120	4	0000–2400	
6			ANDIJAN	URS	72E27 40N47	A18	1	1.00	120	4	0000–2400	
7			BAKU	URS	49E45 40N20	A20	1	1.00	120	4	0000–2400	
8			BELGOROD	URS	36E30 50N38	A20	1	1.00	120	4	0000–2400	
9			BEREGNIKI	URS	56E15 59N24	A20	1	1.00	120	4	0000–2400	
10			BIROBIDJAN	URS	133E00 49N16	A18	1	1.00	120	4	0000–2400	
11			CHAULIAI	URS	23E15 55N56	A18	1	1.00	120	4	0000–2400	
12			CHELABINSK	URS	61E24 55N09	A20	1	1.00	120	4	0000–2400	
13			CHERLAK	URS	74E42 53N18	A20	1	1.00	120	4	0000–2400	
14			CHERSKI	URS	162E00 67N30	A20	1	1.00	120	4	0000–2400	
15		S	DAUGAVPILS	URS	26E33 55N50	A16	1	1.00	120	4	0000–2400	
16			DUDINKA	URS	86E07 69N37	A20	1	1.00	120	4	0000–2400	
17			ENISEISK	URS	92E00 58N15	A20	1	1.00	120	4	0000–2400	
18			ERBOGACHEN	URS	108E00 61N18	A20	1	1.00	120	4	0000–2400	
19			EREVAN	URS	44E30 40N11	A20	1	1.00	120	4	0000–2400	
20			FRUNZE	URS	74E37 42N54	A18	1	1.00	120	4	0000–2400	
21			GDOV	URS	27E51 58N41	A20	1	1.00	120	4	0000–2400	
22			GORNO ALTAISK	URS	85E52 51N57	A18	1	1.00	120	4	0000–2400	
23			GREMIHA	URS	39E52 68N03	A20	1	1.00	120	4	0000–2400	
24			GROZNE	URS	45E38 43N19	A20	1	1.00	120	4	0000–2400	
25			IGAGCA	URS	86E34 67N29	A20	1	1.00	120	4	0000–2400	
26			IMAN	URS	133E43 45N56	A18	1	1.00	120	4	0000–2400	
27			INTA	URS	60E00 66N00	A20	1	1.00	120	4	0000–2400	
28			IRBIT	URS	63E02 57N43	A20	1	1.00	120	4	0000–2400	
29			IRKUTSK	URS	104E20 52N17	A18	1	1.00	120	4	0000–2400	
30			IUJNSAKHALINSK	URS	143E00 47N00	A18	1	1.00	120	2	0000–2400	
31			IVANO FRANKOVS	URS	24E32 48N36	A20	1	1.00	120	4	0000–2400	
32			KALEVALA	URS	31E11 65N13	A18	1	1.00	120	4	0000–2400	
33			KAMEN OBI	URS	81E19 54N40	A20	1	1.00	120	4	0000–2400	
34			KAMISNIN	URS	45E20 50N06	A20	1	1.00	120	4	0000–2400	
35			KAMO	URS	45E00 40N15	A20	1	1.00	120	4	0000–2400	
36			KARAVAN	URS	72E08 40N18	A20	1	1.00	120	4	0000–2400	
37			KAUNAS	URS	23E54 54N52	A18	1	1.00	120	4	0000–2400	
38			KAZAN	URS	49E08 55N47	A20	1	1.00	120	4	0000–2400	
39			KEGMA	URS	100E28 50N06	A20	1	1.00	120	4	0000–2400	
40			KEM	URS	34E00 65N00	A20	1	1.00	120	4	0000–2400	
41			KEMEROVO	URS	86E00 55N22	A20	1	1.00	120	4	0000–2400	
42			KHABAROVSK	URS	135E10 48N33	A18	1	1.00	120	4	0000–2400	
43			KHANTY MANSIJS	URS	62E00 61N00	A20	1	1.00	120	4	0000–2400	
44			KHATANGA	URS	102E30 72N00	A20	1	1.00	120	4	0000–2400	
45			KIROV	URS	49E41 58N36	A20	1	1.00	120	4	0000–2400	
46			KIROVABAD	URS	46E21 40N39	A18	1	1.00	120	4	0000–2400	
47			KIRS	URS	52E50 67N00	A20	1	1.00	120	4	0000–2400	
48			KLIUCHI	URS	160E10 56N19	A20	1	1.00	120	4	0000–2400	
49			KOKHTLA IARVE	URS	27E10 59N20	A18	1	1.00	120	4	0000–2400	
50			KOSTROMA	URS	41E00 57N50	A20	1	1.00	120	4	0000–2400	
51			KULDIGA	URS	21E58 56N58	A18	1	1.00	120	4	0000–2400	
52			KURGAN	URS	65E17 55N29	A20	1	1.00	120	4	0000–2400	
53			KUZEMA	URS	34E12 65N22	A18	1	1.00	120	4	0000–2400	
54			KYZYL	URS	94E28 51N43	A18	1	1.00	120	4	0000–2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11
1	1485		LENDERY	URS	31E14 63N22	A18	1	1.00	120	4	0000–2400	
2	(107)		LENINABAD	URS	69E37 40N16	A18	1	1.00	120	4	0000–2400	
3			LENINOGOASK	URS	83E30 51N30	A20	1	1.00	120	4	0000–2400	
4		S	LIEPAIA	URS	21E02 56N33	A16	1	1.00	120	4	0000–2400	
5			LIPETZK	URS	39E35 52N38	A20	1	1.00	120	4	0000–2400	
6			MADONA	URS	26E13 56N49	A18	1	1.00	120	4	0000–2400	
7			MAIKOP	URS	39E50 45N00	A20	1	1.00	120	4	0000–2400	
8			MARY	URS	61E50 37N35	A18	1	1.00	120	4	0000–2400	
9			MEDVEJIEGORSK	URS	34E24 62N56	A18	1	1.00	120	4	0000–2400	
10		S	MOSKVA	URS	37E38 55N45	A16	1	1.00	120	4	0000–2400	
11			MURGAB	URS	74E02 38N11	A20	1	1.00	120	4	0000–2400	
12			NARIAN–MAR	URS	53E08 68N02	A20	1	1.00	120	4	0000–2400	
13			NEBIT DAG	URS	54E03 39N20	A18	1	1.00	120	4	0000–2400	
14			NIKOLAEVSK AMU	URS	140E42 53N10	A20	1	1.00	120	4	0000–2400	
15			NORILSK	URS	88E15 69N12	A20	1	1.00	120	4	0000–2400	
16			OIMIAKON	URS	145E00 63N15	A20	1	1.00	120	4	0000–2400	
17			OLENEK	URS	112E00 68N12	A20	1	1.00	120	4	0000–2400	
18			ORDJONIKIDZE	URS	44E21 43N01	A18	1	1.00	120	4	0000–2400	
19			ORSK	URS	58E44 51N13	A20	1	1.00	120	4	0000–2400	
20			OSINOVO	URS	90E00 61N12	A20	1	1.00	120	4	0000–2400	
21			PIARNU	URS	24E33 58N23	A18	1	1.00	120	4	0000–2400	
22			PORONAISK	URS	143E05 49N11	A20	1	1.00	120	4	0000–2400	
23			REZEKNE	URS	27E20 56N33	A18	1	1.00	120	4	0000–2400	
24			RIAZAN	URS	39E15 54N35	A20	1	1.00	120	4	0000–2400	
25			RIGA	URS	24E05 56N57	A20	1	1.00	120	4	0000–2400	
26			SAMBURG	URS	77E30 67N45	A20	1	1.00	120	4	0000–2400	
27			SARANSK	URS	45E06 54N12	A20	1	1.00	120	4	0000–2400	
28			SHARY	URS	45E30 58N21	A20	1	1.00	120	4	0000–2400	
29			SHVEDCHIKI	URS	54E30 43N54	A20	1	1.00	120	4	0000–2400	
30			SMOLENSK	URS	31E43 54N48	A20	1	1.00	120	4	0000–2400	
31			SOTCHI	URS	39E23 43N35	A18	1	1.00	120	4	0000–2400	
32			SPASSK–DALNI	URS	132E47 44N38	A20	1	1.00	120	4	0000–2400	
33			SUKHUMI	URS	41E00 43N00	A18	1	1.00	120	4	0000–2400	
34			SVOBODNYI	URS	128E00 51N30	A18	1	1.00	120	4	0000–2400	
35			TACHKENT	URS	69E15 41N19	A18	1	1.00	120	4	0000–2400	
36			TAISHET	URS	98E01 55N57	A20	1	1.00	120	4	0000–2400	
37			TALLIN	URS	24E46 59N24	A18	1	1.00	120	4	0000–2400	
38			TBILISI	URS	44E30 41N40	A18	1	1.00	120	4	0000–2400	
39			TCHARDJOU	URS	63E55 39N02	A18	1	1.00	120	4	0000–2400	
40			TCHITA	URS	113E20 52N02	A18	1	1.00	120	4	0000–2400	
41			TROIZSKOE	URS	136E34 49N30	A20	1	1.00	120	4	0000–2400	
42		S	TSESVAINE	URS	26E20 57N56	A16	1	1.00	120	4	0000–2400	
43			TULA	URS	37E37 54N12	A20	1	1.00	120	4	0000–2400	
44			TURUHANSK	URS	87E57 65N47	A20	1	1.00	120	4	0000–2400	
45			TYRMA	URS	132E15 50N05	A20	1	1.00	120	4	0000–2400	
46			TZAKIR	URS	103E36 50N17	A20	1	1.00	120	4	0000–2400	
47			UGLEGORSK	URS	142E10 48N59	A18	1	1.00	120	4	0000–2400	
48			URGUM	URS	49E41 58N36	A20	1	1.00	120	4	0000–2400	
49			UST BOLSHEREZK	URS	156E00 52N52	A20	1	1.00	120	4	0000–2400	
50			VALMIERA	URS	25E29 57N32	A18	1	1.00	120	4	0000–2400	
51			VECHINTOS	URS	25E00 55N40	A18	1	1.00	120	4	0000–2400	
52			VETLUGA	URS	45E44 57N51	A20	1	1.00	120	4	0000–2400	
53		S	VILNIUS	URS	25E15 54N40	A16	1	1.00	120	4	0000–2400	
54			VIZENGA	URS	63E12 67N16	A20	1	1.00	120	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1485	VLADIVOSTOK	URS	131E53 43N07	A18	1	1.00	120	4	0000—2400	
2	(107)	VORKUTA	URS	63E45 67N40	A20	1	1.00	120	4	0000—2400	
3		VRINSK	URS	48E40 62N05	A20	1	1.00	120	4	0000—2400	
4		WANKAREN	URS	176E00 67N20	A20	1	1.00	120	4	0000—2400	
5		WAKE ISLAND	WAK	166E38 19N16	A 9	0.5	0.40	5	2	2300—1100	
6		KHAMER	YEM	44E02 16N03	A 9	1	1.00	55	3	0300—2200	
7		ALGHAYDAH	YMS	52E00 16N25	A 9	1	1.00	55	4	0300—2200	
8		BEROVO	YUG	22E52 41N42	D20	1	0.50	40	5	0000—2400	
9		BOS GRADISKA	YUG	17E16 45N09	D20	1	0.50	40	3	0000—2400	
10		BRCKO	YUG	18E50 44N50	D20	1	0.50	40	3	0000—2400	
11		CETINJE	YUG	18E56 42N23	D20	1	0.50	40	5	0000—2400	
12		DRVAR	YUG	16E24 44N22	D20	1	0.50	40	5	0000—2400	
13		DUBROVNIK	YUG	18E07 42N39	D20	1	0.50	40	5	0000—2400	
14		GADZIN HAN	YUG	22E03 43N12	D20	0.3	0.15	40		0000—2400	
15		GOLUBAC	YUG	21E38 44N38	D20	1	0.50	40	3	0000—2400	
16		IVANJICA	YUG	20E14 43N34	D20	0.3	0.15	40	4	0000—2400	
17		JAJCE	YUG	17E19 44N23	D20	1	0.50	40	5	0000—2400	
18		JESENICE	YUG	14E04 46N26	D20	1	0.50	40	6	0000—2400	
19		KAVADARCI	YUG	22E01 41N26	D20	1	0.50	40	4	0000—2400	
20		KICEVO	YUG	20E58 41N31	D20	1	0.50	40	6	0000—2400	
21		KIKINDA	YUG	20E30 45N47	D20	1	0.50	40	3	0000—2400	
22		KLADOVO	YUG	22E36 44N35	D20	1	0.50	40	3	0000—2400	
23		KOS KAMENICA	YUG	21E35 42N35	D20	1	0.50	40	5	0000—2400	
24		KRIVA PALANKA	YUG	22E22 42N12	D20	1	0.50	40	6	0000—2400	
25		KUCEVO	YUG	21E40 44N29	D20	0.3	0.15	40		0000—2400	
26		LEPOSAVIC	YUG	20E49 43N06	D20	1	0.50	40	5	0000—2400	
27		LJUBUSKI	YUG	17E36 43N21	D20	1	0.50	40	5	0000—2400	
28		NIKSIC 2	YUG	18E57 42N46	D20	1	0.63	60	5	0000—2400	
29		NOVA GORICA	YUG	13E40 45N58	D20	1	0.50	40	4	0000—2400	
30		PIROT	YUG	22E33 43N08	D20	1	0.50	40	4	0000—2400	
31		PLAV	YUG	19E27 42N36	D20	1	0.50	40	5	0000—2400	
32		PLUZINE	YUG	18E51 43N11	D20	1	0.50	40	5	0000—2400	
33		POSUSJE	YUG	17E19 43N29	D20	1	0.50	40	5	0000—2400	
34		PRIBOJ	YUG	19E33 43N33	D20	0.3	0.15	40	5	0000—2400	
35		PTUJ	YUG	15E52 46N25	D20	1	0.50	50	4	0000—2400	
36		RAB	YUG	14E45 44N45	D20	1	0.50	40	4	0000—2400	
37		RACA	YUG	20E59 44N14	D20	0.3	0.15	40	3	0000—2400	
38		RADLJE	YUG	15E13 46N37	D20	1	0.50	40	8	0000—2400	
39		RESEN	YUG	21E01 41N06	D20	1	0.50	40	6	0000—2400	
40		RIJEKA	YUG	14E26 45N20	D20	1	0.50	40	4	0000—2400	
41		ROVINJ	YUG	13E37 45N06	D20	1	0.50	40	4	0000—2400	
42		SLUNJ	YUG	15E35 45N05	D20	1	0.50	40	5	0000—2400	
43		SPLIT	YUG	16E28 43N30	D20	1	0.50	40	5	0000—2400	
44		SREBRENICA	YUG	19E19 44N07	D20	1	0.50	40	4	0000—2400	
45		TRBOVLJE	YUG	15E03 46N10	D20	1	0.50	45	5	0000—2400	
46		TRGOVISTE	YUG	22E06 42N22	D20	1	0.50	40	5	0000—2400	
47		TUTIN	YUG	20E21 42N59	D20	0.3	0.15	40	4	0000—2400	
48		VIROVITICA	YUG	17E22 45N49	D20	1	0.50	40	4	0000—2400	
49		ZABLJAK	YUG	19E00 43N09	D20	1	0.50	40	5	0000—2400	
50		ZAGREB	YUG	15E58 45N49	D20	1	0.50	40	3	0000—2400	
51		ZAJECAR	YUG	22E18 43N55	D20	1	0.50	40	3	0000—2400	
52		BENI	ZAI	29E28 00N30	A 9	1	1.00	60	8	0000—2400	
53		ISOKA	ZMB	32E47 10S15	A20	1	1.00	50	4	0200—2100	
54		KAOMA	ZMB	24E48 14S48	A20	1	1.00	50	4	0200—2100	



	1	2	3	4	5	6	7	8	9	10	11
1	1485	KASEMPA	ZMB	25E47 13S23	A20	1	1.00	50	4	0200–2100	
2	(107)	KAWAMBWA	ZMB	29E05 09S47	A20	1	1.00	50	4	0200–2100	
3		SESHEKE	ZMB	24E20 17S25	A20	1	1.00	50	4	0200–2100	

	1		2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1584		PARWAN	AFG	69E05 35N00	A 9	1	1.00	47	4	0000–2400	
2	(118)		SAMANGAN	AFG	68E00 36N04	A 9	1	1.00	47	4	0000–2400	
3			SAROBI	AFG	69E02 34N07	A 9	1	1.00	47	4	0000–2400	
4			TAJQURGHAN	AFG	67E07 36N08	A 9	1	1.00	47	4	0000–2400	
5			CACONDA	AGL	15E00 13S45	A20	1	1.00	50	3	0000–2400	
6			N LISBOA	AGL	15E45 12S47	A10	0.5	0.50	50	3	0500–2300	
7			FUSHE AREZ	ALB	19E55 42N03	A20	1	0.63	50	6	0400–2300	
8			AFLOU	ALG	02E45 34N00	A20	1				0600–2400	
9			BEDJAIA	ALG	05E05 36N45	A20	1				0600–2400	
10			MILLINGIMBY NT	AUS	134E56 12S06	A20	0.1		20	4	1900–1400	
11			MT GAMBIER SA	AUS	140E47 37S49	A20	0.2		21	3	1900–1400	
12			NEWCASTLE NSW	AUS	151E42 32S52	A20	0.1		31	3	0000–2400	
13			ST HELENS TAS	AUS	148E17 41S20	A20	0.1		48	5	1900–1400	
14			WILCANNIA NSW	AUS	143E22 31S32	A20	0.1		48	2	1900–1400	
15			WOOMERA SA	AUS	136E49 31S12	A20	0.1		21	3	1900–1400	
16			BAD AUSSEE	AUT	13E47 47N37	D 9	0.1	0.10	15	6	0000–2400	
17			BAD HOFGASTEIN	AUT	13E07 47N10	D 9	0.1	0.10	15	6	0000–2400	
18			BAD ISCHL	AUT	13E38 47N42	D 9	0.1	0.10	15	6	0000–2400	
19			BAD S LEONHARD	AUT	14E47 46N57	D 9	0.1	0.10	15	6	0000–2400	
20			EHRWALD TIROL	AUT	10E55 47N24	D 9	0.1	0.10	15	6	0000–2400	
21			EISENERZ	AUT	14E54 47N33	D 9	0.1	0.10	15	6	0000–2400	
22			HASLACH	AUT	14E03 48N35	D 9	0.1	0.10	15	6	0000–2400	
23			KNITTELFELD	AUT	14E50 47N13	D 9	0.1	0.10	15	6	0000–2400	
24			KUFSTEIN	AUT	12E11 47N35	D 9	0.1	0.10	15	6	0000–2400	
25			LANDECK	AUT	10E33 47N08	D 9	0.1	0.10	15	6	0000–2400	
26			NAUDERS	AUT	10E31 46N54	D 9	0.1	0.10	15	6	0000–2400	
27			NEUBERG MUERZ	AUT	15E34 47N40	D 9	0.1	0.10	15	6	0000–2400	
28			NEUMARKT	AUT	14E25 47N04	D 9	0.1	0.10	15	6	0000–2400	
29			OBERVELLACH	AUT	13E12 46N56	D 9	0.1	0.10	15	6	0000–2400	
30			RADSTADT	AUT	13E27 47N24	D 9	0.1	0.10	15	6	0000–2400	
31			ROTTENMANN	AUT	14E22 47N32	D 9	0.1	0.10	15	6	0000–2400	
32			S GALLEN	AUT	14E37 47N41	D 9	0.1	0.10	15	6	0000–2400	
33			SCHARNITZ	AUT	11E16 47N23	D 9	0.1	0.10	15	6	0000–2400	
34			UNZMARKT	AUT	14E27 47N12	D 9	0.1	0.10	15	6	0000–2400	
35			ZELL AM SEE	AUT	12E48 47N20	D 9	0.2	0.20	15	6	0000–2400	
36			ZELL AM ZILLER	AUT	11E53 47N14	D 9	0.1	0.10	15	6	0000–2400	
37			LAJES	AZR	27W09 38N43	A20	1	1.00	50	4	0000–2400	
38			GISAGARA	BDI	30E40 03S12	A 9	1	1.00	47	4	0500–0100	
39			COTONOU	BEN	02E28 06N22	A10	1	1.00	47	4	0500–2400	
40			KANDI	BEN	02E56 11N08	A10	1	1.00	47	4	0500–2400	
41			KUSHTIA	BGD	88E55 23N56	A20	1	1.00	50	3	0000–1800	
42			BARANOVICHI	BLR	26E03 53N08	A20	1	1.00	120	4	0000–2400	
43			GOMEL	BLR	31E01 52N25	A20	1	1.00	120	4	0000–2400	
44			GRODNO	BLR	24E00 53N54	A20	1	1.00	120	4	0000–2400	
45			KLIMOVICHI	BLR	32E00 53N36	A20	1	1.00	120	4	0000–2400	
46			MINSK	BLR	27E34 53N56	A20	1	1.00	120	4	0000–2400	
47			MOZYR	BLR	29E25 52N10	A20	1	1.00	120	4	0000–2400	
48			UCHACHI	BLR	28E30 55N20	A20	1	1.00	120	4	0000–2400	
49			SEROWE	BOT	26E42 22S23	A20	1	1.00	40	4	0300–2100	
50		S	MALKO TARNOVO	BUL	27E36 42N00	A18	1	1.00	30	5	0000–2400	
51		S	SILISTRA	BUL	27E12 44N06	A18	1	1.00	30	5	0000–2400	
52		S	SMOLIAN	BUL	24E40 41N35	A18	1	1.00	30	5	0000–2400	
53		S	SOZOPOL	BUL	27E41 42N24	A18	1	1.00	30	5	0000–2400	
54		S	TRAN	BUL	22E47 42N39	A18	1	1.00	30	5	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1584	BAKOUMA	CAF	22E47 05N42	A 9	1	1.00	20	5	0400–2300	
2	(118)	BIRAO	CAF	22E40 10N10	A 9	1	1.00	20	5	0400–2300	
3		BOUCA	CAF	18E16 06N30	A 9	1	1.00	20	5	0400–2300	
4		CARNOT	CAF	15E52 04N59	A 9	1	1.00	20	3	0400–2300	
5		OUANGO	CAF	22E33 04N19	A 9	1	1.00	20	3	0400–2300	
6		KOSRAE I	CAR	162E02 05N20	B10	1	1.00	18	2	0000–2400	
7		BAOAN	CHN	114E05 22N38	A20	0.5	0.50	60	4	2000–1800	
8		CHENGDE SHI	CHN	117E48 41N00	A20	1	1.00	120	4	2000–1800	
9		GUANGZHOU	CHN	113E14 23N11	A20	0.1	0.10	50	4	2000–1800	
10		JINHUA	CHN	119E30 29N15	A20	0.5	0.50	90	4	2000–1800	
11		LUOYANG	CHN	112E24 34N42	A20	0.5	0.50	60	4	2000–1800	
12		NANNING	CHN	108E18 22N48	A20	0.5	0.50	90	4	2000–1800	
13		SHANGHAI	CHN	121E29 31N15	A20	0.5	0.50	90	3	2000–1800	
14		TENGCHONG	CHN	98E20 25N00	A20	0.5	0.50	90	5	2000–1800	
15		TIANSHUI SHI	CHN	105E30 34N30	A20	0.5	0.50	70	4	2000–1800	
16		WUYUAN	CHN	108E12 41N30	A20	0.5	0.50	90	4	2000–1800	
17		XIAMEN	CHN	118E18 24N24	A20	0.5	0.50	60	4	2000–1800	
18		XIAN	CHN	108E54 34N12	A20	0.4	0.40	50	4	2000–1800	
19		XUZHOU	CHN	117E20 34N14	A20	0.5	0.50	70	3	2000–1800	
20		YANAN	CHN	109E29 36N37	A20	1	1.00	70	4	2000–1800	
21		YANTAI	CHN	121E18 37N36	A20	0.5	0.50	70	4	2000–1800	
22		YUANLING	CHN	110E20 28N40	A20	0.5	0.50	70	4	2000–1800	
23		ZHANGYE	CHN	100E30 38N54	A20	0.5	0.50	70	4	2000–1800	
24		ZHENGZHOU	CHN	113E42 34N42	A20	0.5	0.50	90	4	2000–1800	
25		ZUNYI SHI	CHN	106E50 27N32	A20	0.5	0.50	120	5	2000–1800	
26		BATTICALOA	CLN	81E40 07N45	A20	1	1.00	50	5	0000–1800	
27		CHILAW	CLN	79E48 07N30	A20	1	1.00	50	5	0000–1800	
28		COLOMBO	CLN	79E50 06N55	A20	1	1.00	50	5	0000–1800	
29		MATARA	CLN	80E27 06N00	A20	1	1.00	50	5	0000–1800	
30		BAFOUSSAM	CME	10E25 05N27	A 9	1		50	4	0500–2300	
31		BATOURI	CME	14E21 04N27	A 9	1			5	0500–2300	
32		KUMBA	CME	09E14 05N46	A 9	1			4	0500–2300	
33		MAKARI	CME	13E09 04N40	A 9	1			4	0500–2300	
34		MBANGA	CME	09E36 04N27	A 9	1			5	0500–2300	
35		MBOUDA	CME	10E00 05N30	A 9	1			4	0500–2300	
36		MEIGANGA	CME	14E21 06N30	A 9	1			4	0500–2300	
37		MOLOUNDOU	CME	15E18 02N06	A 9	1			5	0500–2300	
38		NANGA EBOKO	CME	12E24 04N37	A 9	1			5	0500–2300	
39		ARRECIFE	CNR	13W35 28N55	A20	1	0.63	40	5	0000–2400	
40		ARUCAS	CNR	15W40 28N10	A20	1	0.63	30	5	0000–2400	
41		LOS LLANOS	CNR	17W55 28N40	A20	1	0.63	40	5	0000–2400	
42		PT ROSARIO	CNR	13W50 28N30	A20	1	0.63	30	5	0000–2400	
43		S SEBASTIANGOM	CNR	17W05 28N05	A20	1	0.63	40	5	0000–2400	
44		EPENA	COG	17E29 01N22	A20	1	0.50			0000–2400	
45		KIMONGO	COG	12E55 04S27	A20	1	0.50			0000–2400	
46		BONGOUANOU	CTI	04W14 06N38	A 9	1			7	0600–2400	
47		DANANE	CTI	08W08 07N22	A 9	1			7	0600–2400	
48		SEGUELA	CTI	06W55 07N56	A 9	1	1.00	47	7	0600–2400	
49		TIASSALE	CTI	04W49 06N00	A 9	1			7	0600–2400	
50		YAMOUSSOUKRO	CTI	05W27 06N58	A 9	0.1			7	0600–2400	
51		BAD DOBERAN	DDR	11E53 54N07	D 9	1		20	3	0000–2400	
52		BAD SALZUNGEN	DDR	10E09 50N47	D 9	1		20	4	0000–2400	
53		KARL MARX STD	DDR	12E58 50N47	D 9	1	1.00	20	4	0000–2400	
54		NORDHAUSEN	DDR	10E58 51N30	D 9	1		20	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	PASEWALK	DDR	14E00 53N30	D 9	1		20	4	0000–2400	
2	(118)	PRITZWALK	DDR	12E12 53N09	D 9	1		20	4	0000–2400	
3		SCHLEIZ	DDR	11E49 50N34	D 9	1		20	4	0000–2400	
4		SEBNITZ	DDR	14E17 50N58	D 9	1		20	4	0000–2400	
5		WEISSWASSER	DDR	14E39 51N31	D 9	1		20	4	0000–2400	
6		BARBATE	E	05W55 36N15	D20	0.3	0.19	30	4	0000–2400	
7		BEJAR	E	05W45 40N25	D20	0.3	0.19	30	5	0000–2400	
8		BURGOS	E	03W40 42N20	D20	1	0.63	30	4	0000–2400	
9		CANGAS NARCEA	E	06W30 43N10	D20	0.3	0.19	30	5	0000–2400	
10		CARTAGENA	E	01W00 37N35	D20	1	0.63	30	5	0000–2400	
11		CUENCA	E	02W10 40N05	D20	1	0.63	30	5	0000–2400	
12		GERONA	E	02E50 42N00	D20	1	0.63	30	5	0000–2400	
13		GRANADA	E	03W35 37N10	D20	1	0.63	30	5	0000–2400	
14		HUELVA	E	06W55 37N15	D20	1	0.63	30	3	0000–2400	
15		HUESCA	E	00W20 42N10	D20	0.5	0.32	30	5	0000–2400	
16		JAEN	E	03W45 37N45	D20	1	0.63	30	5	0000–2400	
17		LA GUARDIA	E	08W50 41N55	D20	0.3	0.19	30	5	0000–2400	
18		LEON	E	05W35 42N35	D20	1	0.63	30	5	0000–2400	
19		LOGRONO	E	02W30 42N30	D20	1	0.63	30	4	0000–2400	
20		LUGO	E	07W35 43N00	D20	1	0.63	30	5	0000–2400	
21		MANACOR	E	03E15 39N35	D20	0.3	0.19	30	4	0000–2400	
22		MORON	E	05W25 37N10	D20	0.3	0.19	30	4	0000–2400	
23		OSUNA	E	05W00 37N15	D20	0.3	0.19	30	4	0000–2400	
24		REQUENA	E	01W10 39N30	D20	0.3	0.19	30	5	0000–2400	
25		S SEBASTIAN	E	02W00 43N20	D20	1	0.63	30	5	0000–2400	
26		SEGOVIA	E	04W05 40N55	D20	0.5	0.32	30	5	0000–2400	
27		SOCUELLAMOS	E	02W50 39N15	D20	0.3	0.19	30	4	0000–2400	
28		TARRAGONA	E	01E15 41N10	D20	1	0.63	30	5	0000–2400	
29		TORRELAVEGA	E	04W05 43N20	D20	1	0.63	30	5	0000–2400	
30		VIELLA	E	00E50 42N40	D20	0.3	0.19	30	5	0000–2400	
31		VITIGUDINO	E	06W25 41N00	D20	0.3	0.19	30	4	0000–2400	
32		VITORIA	E	02W40 42N51	D20	1	0.63	40	5	0000–2400	
33		VIVERO	E	07W35 43N40	D20	0.3	0.19	30	5	0000–2400	
34		ZAMORA	E	05W45 41N30	D20	0.5	0.32	30	5	0000–2400	
35		ALAMEN	EGY	28E50 30N23	A20	1	1.00	47	4	0000–2400	
36		ASSIUT	EGY	31E04 27N11	A20	1	1.00	47	4	0000–2400	
37		ASSWAN	EGY	32E57 24N04	A20	1	1.00	47	4	0000–2400	
38		BARIS	EGY	30E37 24N40	A20	1	1.00	47	4	0000–2400	
39		DEMIAT	EGY	31E45 31N15	A20	1	1.00	47	4	0000–2400	
40		EL WASTA	EGY	31E10 29N20	A20	1	1.00	47	4	0000–2400	
41		KASR EL FRAFRA	EGY	27E55 27N05	A20	1	1.00	47	4	0000–2400	
42		LUXOR	EGY	32E28 25N42	A20	1	1.00	47	4	0000–2400	
43		RAS ZAFARANA	EGY	32E40 29N05	A20	1	1.00	47	4	0000–2400	
44		SIDI BARANI	EGY	26E00 30N48	A20	1	1.00	47	4	0000–2400	
45		DESSIE	ETH	39E37 11N00	A 9	1	1.00	48	3	0400–2300	
46		GHIMBI	ETH	35E49 09N11	A 9	1	1.00	48	3	0000–2400	
47		MAKALE	ETH	39E28 13N31	A 9	1	1.00	48	3	0000–2400	
48		BESANCON V	F	06E00 47N15	D 9	1	1.00	50	7	0000–2400	
49		CALVI	F	08E43 42N34	D 9	1	1.00	50	7	0000–2400	
50		DUNKERQUE V	F	02E20 51N02	D 9	1	1.00	50	7	0000–2400	
51		LE HAVRE V	F	00E06 49N10	D 9	1	1.00	50	7	0000–2400	
52		LYON V	F	04E50 45N46	D 9	1	1.00	50	7	0000–2400	
53		METZ V	F	06E10 49N06	D 9	1	1.00	50	7	0000–2400	
54		MONTPELLIER V	F	03E50 43N55	D 9	1	1.00	50	7	0000–2400	

	1	2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1584 (118)	MULHOUSE V	F	07E20 47N43	D 9	1	1.00	50	7	0000–2400	
2		NANTES V	F	01W29 47N03	D 9	1	1.00	50	7	0000–2400	
3		NICE V	F	07E18 43N42	D 9	1	1.00	50	7	0000–2400	
4		PERPIGNAN	F	02E53 42N42	D 9	1	1.00	50	6	0000–2400	
5		STRASBOURG V	F	07E45 48N35	D 9	1	1.00	50	7	0000–2400	
6		TOULON V	F	05E56 43N07	D 9	1	1.00	50	7	0000–2400	
7		DRASA	FJI	177E31 17S35	A20	1	0.63	90	7	1700–1200	
8		NAULU REWA	FJI	178E32 18S04	A20	1	0.63	60	5	1700–1200	
9		AANEKOSKI	FNL	25E44 62N36	A20	1	1.00	50	5	0000–2400	
10		HAMINA	FNL	27E10 60N35	A20	1	1.00	50	5	0000–2400	
11		HELSINKI	FNL	24E59 60N03	A20	1	1.00	50	5	0000–2400	
12		IISALMI	FNL	27E13 63N35	A20	1	1.00	50	5	0000–2400	
13		LAPPEENRANTA	FNL	28E13 61N03	A20	1	1.00	50	5	0000–2400	
14		LIEKSA	FNL	30E02 63N19	A20	1	1.00	50	6	0000–2400	
15		MARIEHAMN	FNL	19E55 60N05	A20	1	1.00	50	3	0000–2400	
16		OULU	FNL	25E29 65N01	A20	1	1.00	50	4	0000–2400	
17		RAUMA	FNL	21E30 61N08	A20	1	1.00	50	5	0000–2400	
18		RIIHIMAKI	FNL	24E47 60N44	A20	1	1.00	50	5	0000–2400	
19		ROVANIEMI	FNL	25E40 66N30	A20	1	1.00	50	6	0000–2400	
20		SALO	FNL	23E07 60N23	A20	1	1.00	50	5	0000–2400	
21		VAASA	FNL	21E43 63N05	A20	1	1.00	50	5	0000–2400	
22		VALKEAKOSKI	FNL	24E01 61N17	A20	1	1.00	50	5	0000–2400	
23		VARKAUS	FNL	27E54 62N19	A20	1	1.00	50	5	0000–2400	
24		DUNDEE	G	02W58 56N28	A20	0.3	0.09	21	4	0000–2400	
25		FOXDALE	G	04W39 54N10	A20	2	1.00	50	4	0000–2400	
26		LEICESTER	G	01W09 52N37	A20	0.5	0.50	46	3	0000–2400	
27		PERTH	G	03W26 56N23	A20	0.5	0.32		3	0000–2400	
28		BITAM	GAB	11E28 02N05	A 9	1			4	0400–2400	
29		MITZIC	GAB	11E33 00N47	A 9	1			4	0400–2400	
30		MOUILA	GAB	11E02 01S51	A 9	0.1			4	0400–2400	
31		ANDROS	GRC	24E56 37N50	A 9	1	0.79	50	5	0400–2400	
32		ARTA	GRC	21E00 38N08	A 9	1	0.79	50	5	0400–2400	
33		ATHINAI	GRC	23E44 37N54	A 9	1	0.50	27	4	0000–2400	
34		FLORINA	GRC	21E25 40N46	A 9	1	0.79	50	4	0400–2400	
35		GREVENA	GRC	21E25 40N06	A 9	1	0.63	40	4	0000–2400	
36		IRAKLION	GRC	25E17 35N19	A 9	0.3	0.24	45	3	0000–2400	
37		KEFALLINIA	GRC	20E32 38N11	A 9	1	0.79	50	5	0400–2400	
38		KOMOTINI	GRC	25E15 41N07	A 9	1	0.79	50	4	0400–2400	
39		KONITSA	GRC	20E42 40N01	A 9	1	0.79	50	5	0400–2400	
40		KOS	GRC	27E05 36N47	A 9	1	0.63	40	4	0000–2400	
41		LAMIA	GRC	22E27 38N53	A 9	1	0.63	40	4	0000–2400	
42		MAVROMATI	GRC	21E55 37N09	A 9	1	0.79	50	4	0400–2400	
43		MOLAOI	GRC	22E59 36N55	A 9	1	0.79	50	5	0400–2400	
44		MYTILINI	GRC	26E33 39N07	A 9	1	0.63	40	4	0000–2400	
45		SERRAE	GRC	23E33 41N06	A 9	1	0.79	50	4	0400–2400	
46		STAVROUPOLIS	GRC	24E30 41N15	A 9	1	0.79	50	5	0400–2400	
47		TRIPOLIS	GRC	22E20 37N30	A 9	1	0.79	50	5	2300–2200	
48		VEROIA	GRC	22E13 40N31	A 9	1	0.63	40	4	0000–2400	
49		FARANAH	GUI	10W45 10N02	A 9	1	1.00	45		0000–2400	
50		LABE	GUI	12W17 11N19	A 9	1	1.00	45		0000–2400	
51		MANDIANA	GUI	08W58 10N44	A 9	1	1.00	47		0000–2400	
52		BEKES	HNG	21E05 46N47	D18	1	1.00	60	4	0000–2400	
53		EGER	HNG	20E22 47N56	D18	1	1.00	60	4	0000–2400	
54		KESZTHELY	HNG	17E15 46N46	D18	1	1.00	60	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	KISVARDA	HNG	22E05 48N19	D18	1	1.00	60	4	0000–2400	
2	(118)	KOMLO	HNG	18E13 46N10	D18	1	1.00	60	4	0000–2400	
3		KOSZEG	HNG	16E38 47N23	D18	1	1.00	60	4	0000–2400	
4		SZENTES	HNG	20E17 46N37	D18	1	1.00	60	4	0000–2400	
5		TATABANYA	HNG	18E26 47N31	D18	1	1.00	60	4	0000–2400	
6		UTRECHT	HOL	05E08 52N05	D 9	2	1.00	30	5	0000–2400	
7		ARIBINDA	HVO	00W50 14N20	A20	1	1.00	47	4	0000–2400	
8		ARLY	HVO	01E30 11N30	A20	1	1.00	47	4	0000–2400	
9		BOULSA	HVO	00W33 12N39	A20	1	1.00	47	4	0000–2400	
10		COALA	HVO	00W07 13N28	A20	1	1.00	47	4	0000–2400	
11		DJIBASSO	HVO	04W15 13N15	A20	1	1.00	47	4	0000–2400	
12		ORODARA	HVO	04W55 10N59	A20	1	1.00	47	4	0000–2400	
13		ALESSANDRIA	I	08E37 44N55	D 9	1	1.00	50	5	0000–2400	
14		AREZZO	I	11E53 43N28	D 9	1	1.00	50	5	0000–2400	
15		AVELLINO	I	14E47 40N55	D 9	1	1.00	50	5	0000–2400	
16		BELLUNO	I	12E13 46N08	D 9	1	1.00	50	5	0000–2400	
17		BERGAMO	I	09E40 45N53	D 9	1	1.00	50	5	0000–2400	
18		CAMPOBASSO	I	14E39 41N34	D 9	1	1.00	50	5	0000–2400	
19		COSENZA	I	16E15 39N18	D 9	1	1.00	50	5	0000–2400	
20		GUALDOTADINO	I	12E47 43N12	D 9	1	1.00	50	5	0000–2400	
21		NUORO	I	09E20 40N19	D 9	1	1.00	50	5	0000–2400	
22		PESARO	I	12E55 43N54	D 9	1	1.00	50	5	0000–2400	
23		TERNI	I	12E39 42N34	D 9	1	1.00	50	5	0000–2400	
24		TRENTO	I	11E08 46N04	D 9	1	1.00	50	5	0000–2400	
25		TRIESTE	I	13E48 45N39	D 9	1	1.00	50	5	0000–2400	
26		VARESE	I	08E49 45N49	D 9	1	1.00	50	5	0000–2400	
27		VICENZA	I	11E33 45N33	D 9	1	1.00	50	5	0000–2400	
28		CHAMBA	IND	76E10 32N30	A20	1		100	4	0000–2400	
29		DURG	IND	81E10 21N10	A20	1		100	3	0000–2400	
30		ELURU	IND	81E09 16N43	A20	1		100	3	0000–2400	
31		ENGLISH BAZAR	IND	88E10 25N00	A20	1		100	4	0000–2400	
32		ERNAKULAM	IND	76E15 10N00	A20	1		100	4	0000–2400	
33		ETAH	IND	78E40 27N35	A20	1		100	3	0000–2400	
34		ETAWAH	IND	79E02 26N47	A20	1		100	3	0000–2400	
35		FATEHPUR	IND	80E52 25N55	A20	1		100	3	0000–2400	
36		FEROZEPUR	IND	74E50 31N00	A20	1		100	3	0000–2400	
37		GANDHINAGAR	IND	72E45 23N15	A20	1		100	3	0000–2400	
38		GANGANAGAR	IND	73E50 29N49	A20	1		100	3	0000–2400	
39		GANGTOK	IND	88E40 27N20	A20	1		100	4	0000–2400	
40		GANJAM	IND	85E05 19N25	A20	1		100	3	0000–2400	
41		GAYA	IND	85E00 24N50	A20	1		100	3	0000–2400	
42		GAZIPUR	IND	83E35 25N34	A20	1		100	3	0000–2400	
43		GOALPARA	IND	90E40 26N13	A20	1		100	3	0000–2400	
44		GODHRA	IND	73E30 22N50	A20	1		100	3	0000–2400	
45		GONDA	IND	82E01 27N28	A20	1		100	4	0000–2400	
46		GORAKHPUR	IND	83E28 26N52	A20	1		100	3	0000–2400	
47		GULBARGA	IND	76E54 17N19	A20	1		100	3	0000–2400	
48		GUNA	IND	77E10 24N50	A20	1		100	4	0000–2400	
49		GUNTUR	IND	80E03 16N13	A20	1		100	3	0000–2400	
50		GURDASPUR	IND	75E20 32N05	A20	1		100	3	0000–2400	
51		GURGAON	IND	77E00 28N50	A20	1		100	3	0000–2400	
52		GWALIOR	IND	78E10 26N14	A20	1		100	3	0000–2400	
53		HAMIRPUR	IND	80E30 25N45	A20	1		100	4	0000–2400	
54		HAPOLI	IND	93E40 27N30	A20	1		100	4	0000–2400	

1	Assigned frequency (kHz) (Channel number)	2 Name of transmitting station	3 Country symbol	4 Geographical coordinates of transmitting station	5 Necessary bandwidth (kHz)	6 Carrier power (kW)	7 Effective monopole radiated power (e.m.r.p.) (kW)	8 Antenna height (m)	9 Ground conductivity (mS/m)	10 Hours of operation (UTC)	11 Remarks
1	1584 (118)	HARDOI	IND	80E10 27N23	A20	1		100	3	0000–2400	
2		HASSAN	IND	76E10 13N00	A20	1		100	3	0000–2400	
3		HAZARIBAGH	IND	85E20 24N00	A20	1		100	3	0000–2400	
4		HIMATNAGAR	IND	72E50 23N30	A20	1		100	3	0000–2400	
5		HOSHANGABAD	IND	77E45 22N50	A20	1		100	4	0000–2400	
6		HOSHIARPUR	IND	75E50 31N20	A20	1		100	4	0000–2400	
7		HOWRAH	IND	88E23 22N35	A20	1		100	4	0000–2400	
8		HYDERABAD	IND	78E30 17N20	A20	1		100	3	0000–2400	
9		IMPHAL	IND	93E58 24N44	A20	1		100	3	0000–2400	
10		INDORE	IND	75E50 22N44	A20	1		100	3	0000–2400	
11		JABALPUR	IND	79E59 23N10	A20	1		100	3	0000–2400	
12		JAGDALPUR	IND	81E55 19N01	A20	1		100	3	0000–2400	
13		JAIPUR	IND	75E50 26N54	A20	1		100	4	0000–2400	
14		JAISALMER	IND	70E57 26N55	A20	1		100	4	0000–2400	
15		JALGAON	IND	75E31 20N55	A20	1		100	3	0000–2400	
16		JALOR	IND	72E40 25N20	A20	1		100	4	0000–2400	
17		JALPAIGURI	IND	88E50 26N50	A20	1		100	4	0000–2400	
18		JAMMU	IND	74E49 32N47	A20	1		100	4	0000–2400	
19		JAMNAGAR	IND	70E06 22N50	A20	1		100	3	0000–2400	
20		JAMSHEDPUR	IND	86E10 22N50	A20	1		100	4	0000–2400	
21		JAUNPUR	IND	82E44 25N46	A20	1		100	4	0000–2400	
22		JEYPORE	IND	82E40 18N51	A20	1		100	4	0000–2400	
23		JHABUA	IND	74E30 22N50	A20	1		100	3	0000–2400	
24		JHALAWAR	IND	76E12 24N40	A20	1		100	3	0000–2400	
25		JHANSI	IND	78E37 25N27	A20	1		100	3	0000–2400	
26		JHUNJHUNU	IND	75E25 28N06	A20	1		100	4	0000–2400	
27		JIND	IND	76E20 29N15	A20	1		100	3	0000–2400	
28		JODHPUR	IND	72E58 26N20	A20	1		100	4	0000–2400	
29		JULLUNDUR	IND	75E18 31N19	A20	1		100	3	0000–2400	
30		JUNAGADH	IND	70E25 21N20	A20	1		100	3	0000–2400	
31		KAILASHAHAR	IND	92E04 24N23	A20	1		100	3	0000–2400	
32		KAKANA	IND	92E50 09N10	A20	1		100	4	0000–2400	
33		KAKINADA	IND	82E15 17N00	A20	1		100	3	0000–2400	
34		KALPA	IND	78E10 31N30	A20	1		100	4	0000–2400	
35		KAMRUP	IND	91E47 26N11	A20	1		100	3	0000–2400	
36		KANG POKRI	IND	93E58 25N08	A20	1		100	4	0000–2400	
37		KANPUR	IND	80E19 26N28	A20	1		100	3	0000–2400	
38		KAPURTHALA	IND	75E20 31N25	A20	1		100	4	0000–2400	
39		KARAIKAL	IND	79E52 10N55	A20	1		100	3	0000–2400	
40		KAREN	IND	93E00 12N50	A20	1		100	4	0000–2400	
41		KARGIL	IND	76E00 34N50	A20	1		100	4	0000–2400	
42		KARIMNAGAR	IND	79E15 18N30	A20	1		100	3	0000–2400	
43		KARNAL	IND	77E00 29N30	A20	1		100	3	0000–2400	
44		KARWAR	IND	74E11 14N48	A20	1		100	4	0000–2400	
45		KASUMPTI	IND	77E10 31N00	A20	1		100	4	0000–2400	
46		KATHUA	IND	75E40 32N50	A20	1		100	4	0000–2400	
47		KAVARATHY I	IND	72E42 10N36	A20	1		100	4	0000–2400	
48		KEONJHARGARH	IND	85E34 21N37	A20	1		100	4	0000–2400	
49		KHAMMAM	IND	80E10 17N15	A20	1		100	3	0000–2400	
50		KHANDWA	IND	76E30 21N50	A20	1		100	3	0000–2400	
51		KHARGONE	IND	75E30 21N40	A20	1		100	4	0000–2400	
52		KHELA	IND	95E30 27N00	A20	1		100	4	0000–2400	
53		KOHIMA	IND	94E03 25N43	A20	1		100	4	0000–2400	
54		KOLAR	IND	78E10 13N10	A20	1		100	3	0000–2400	

Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	KOLHAPUR	IND	74E20 16N40	A20	1		100	4	0000–2400	
2	(118)	KOLORIANG	IND	93E27 27N52	A20	1		100	4	0000–2400	
3		KOTA	IND	75E52 25N10	A20	1		100	3	0000–2400	
4		KOTTAYAM TRAV	IND	76E30 09N30	A20	1		100	4	0000–2400	
5		KOZHIKODE	IND	75E50 11N15	A20	1		100	4	0000–2400	
6		KULU	IND	77E00 32N00	A20	1		100	4	0000–2400	
7		KURNOOL	IND	78E03 15N50	A20	1		100	3	0000–2400	
8		KYELANG	IND	77E00 32N30	A20	1		100	4	0000–2400	
9		LAKHIMPUR	IND	80E49 27N57	A20	1		100	4	0000–2400	
10		LEH	IND	77E35 34N09	A20	1		100	4	0000–2400	
11		LITTLE NICOBAR	IND	93E50 07N10	A20	1		100	4	0000–2400	
12		LUDHIANA	IND	75E50 30N55	A20	1		100	3	0000–2400	
13		LUNGLEH	IND	92E45 22N50	A20	1		100	4	0000–2400	
14		MACHILIPATNAM	IND	81E12 16N09	A20	1		100	3	0000–2400	
15		MADRAS	IND	80E17 13N04	A20	1		100	3	0000–2400	
16		MADURAI	IND	78E15 09N58	A20	1		100	3	0000–2400	
17		MAHBUBNAGAR	IND	77E58 16N45	A20	1		100	3	0000–2400	
18		MAHE	IND	75E30 11N40	A20	1		100	4	0000–2400	
19		MAINPURI	IND	79E03 27N58	A20	1		100	3	0000–2400	
20		MALAPPURAM	IND	76E05 11N05	A20	1		100	4	0000–2400	
21		MANDASOR	IND	75E00 24N05	A20	1		100	3	0000–2400	
22		MANDI	IND	77E00 31N30	A20	1		100	4	0000–2400	
23		MANDLA	IND	80E30 22N30	A20	1		100	4	0000–2400	
24		MANDYA	IND	77E00 12N30	A20	1		100	3	0000–2400	
25		MANGALORE	IND	74E48 12N48	A20	1		100	4	0000–2400	
26		MATHURA	IND	77E40 27N30	A20	1		100	3	0000–2400	
27		MEDAK	IND	78E15 18N03	A20	1		100	3	0000–2400	
28		MEERUT	IND	77E45 29N01	A20	1		100	3	0000–2400	
29		MEHSANA	IND	72E20 23N30	A20	1		100	3	0000–2400	
30		MERCARA	IND	75E42 12N24	A20	1		100	4	0000–2400	
31		MIDNAPORE	IND	87E15 22N25	A20	1		100	4	0000–2400	
32		MIRZAPUR	IND	82E37 25N10	A20	1		100	4	0000–2400	
33		MOKOKCHUNG	IND	94E30 26N19	A20	1		100	4	0000–2400	
34		MONGHYR	IND	86E40 25N20	A20	1		100	3	0000–2400	
35		MORENA	IND	78E00 26N45	A20	1		100	3	0000–2400	
36		MOTIHARI	IND	84E50 26N50	A20	1		100	3	0000–2400	
37		MURADABAD	IND	78E49 28N51	A20	1		100	3	0000–2400	
38		MUZAFFARPUR	IND	85E25 26N15	A20	1		100	3	0000–2400	
39		AMBON	INS	128E10 03S41	A18	0.5	0.50	25	4	0000–2400	
40		BANDA ATJEH	INS	95E20 05N30	A18	0.5	0.50	25	4	0000–2400	
41		BANDJARMASIN	INS	114E33 03S22	A18	0.5	0.50	25	4	0000–2400	
42		BANDUNG	INS	107E36 06S55	A18	0.5	0.50	25	4	0000–2400	
43		BANGIL	INS	112E46 07S36	A18	0.5	0.50	75	3	0000–2400	
44		BANJUWANGI	INS	114E23 08S13	A18	0.5	0.50	25	4	0000–2400	
45		BENGKULU	INS	102E20 03S46	A18	0.5	0.50	25	4	0000–2400	
46		BIAK	INS	136E04 01S11	A18	0.5	0.50	25	4	0000–2400	
47		BOGOR SEMPLAK	INS	106E47 06S35	A18	0.5	0.50	25	4	0000–2400	
48		BOJONEGORO	INS	111E03 07S09	A18	0.5	0.50	25	4	0000–2400	
49		BONDOWOSO	INS	113E49 07S54	A18	0.5	0.50	75	3	0000–2400	
50		BUKITTINGGI	INS	100E32 00S18	A18	0.5	0.50	25	4	0000–2400	
51		CIANJUR	INS	107E18 06S49	A18	0.5	0.50	75	3	0000–2400	
52		CIKAMPEK	INS	107E28 06S25	A18	0.5	0.50	25	4	0000–2400	
53		DENPASAR	INS	115E13 08S39	A18	0.5	0.50	25	4	0000–2400	
54		DJAKARTA	INS	106E50 06S10	A18	0.5	0.50	75	3	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1584	DJEMBER	INS	113E42 08S10	A18	0.5	0.50	25	4	0000—2400	
2	(118)	FAKFAK	INS	132E17 02S55	A18	0.5	0.50	25	4	0000—2400	
3		GARUT	INS	107E53 06S42	A18	0.5	0.50	25	4	0000—2400	
4		GRESIK	INS	112E39 07S09	A18	0.5	0.50	25	4	0000—2400	
5		KALIWUNGU	INS	110E14 06S57	A18	0.5	0.50	75	3	0000—2400	
6		KEDIRI	INS	112E02 07S53	A18	0.5	0.50	25	4	0000—2400	
7		KENDAL	INS	110E12 06S55	A18	0.5	0.50	25	4	0000—2400	
8		KENDARI	INS	122E36 03S57	A18	0.5	0.50	25	4	0000—2400	
9		KLATEN	INS	110E36 07S42	A18	0.5	0.50	25	4	0000—2400	
10		KLUNGKUNG	INS	115E24 08S32	A18	0.5	0.50	25	4	0000—2400	
11		KRAWANG	INS	107E17 06S18	A18	0.5	0.50	25	4	0000—2400	
12		MADIUN	INS	111E31 07S37	A18	0.5	0.50	25	4	0000—2400	
13		MAGELANG	INS	110E12 07S30	A18	0.5	0.50	25	4	0000—2400	
14		MAJALENGKA	INS	108E13 06S50	A18	0.5	0.50	75	3	0000—2400	
15		MALANG	INS	112E37 07S59	A18	0.5	0.50	75	3	0000—2400	
16		MEDAN	INS	98E40 03N30	A18	0.5	0.50	75	3	0000—2400	
17		MENADO	INS	124E55 01N32	A18	0.5	0.50	25	4	0000—2400	
18		PALEMBANG	INS	104E46 03S00	A18	0.5	0.50	25	4	0000—2400	
19		PALENGKARAJA	INS	113E11 02S02	A18	0.5	0.50	25	4	0000—2400	
20		PALU	INS	119E53 00S54	A18	0.5	0.50	25	4	0000—2400	
21		PANDJANG	INS	105E22 05S33	A18	0.5	0.50	25	4	0000—2400	
22		PASURUAN	INS	112E02 07S38	A18	0.5	0.50	25	4	0000—2400	
23		PATI	INS	111E02 06S45	A18	0.5	0.50	75	3	0000—2400	
24		PAYAHKUMBUH	INS	100E38 00S13	A18	0.5	0.50	75	3	0000—2400	
25		PEKALONGAN	INS	109E40 06S53	A18	0.5	0.50	25	4	0000—2400	
26		PONOROGO	INS	111E28 07S52	A18	0.5	0.50	25	4	0000—2400	
27		PONTIANAK	INS	109E20 00S00	A18	0.5	0.50	75	3	0000—2400	
28		PROBOLINGGO	INS	113E13 07S45	A18	0.5	0.50	25	4	0000—2400	
29		PURWOKERTO	INS	109E15 07S26	A18	0.5	0.50	75	3	0000—2400	
30		PURWOREJO	INS	110E30 07S43	A18	0.5	0.50	25	4	0000—2400	
31		RANGKASBITUNG	INS	106E15 06S22	A18	0.5	0.50	25	4	0000—2400	
32		SAMARINDA	INS	117E09 00S30	A18	0.5	0.50	25	4	0000—2400	
33		SEMARANG	INS	110E25 06S58	A18	0.5	0.50	25	4	0000—2400	
34		SENKANG	INS	119E39 05S02	A18	0.5	0.50	75	3	0000—2400	
35		SERANG	INS	106E09 06S07	A18	0.5	0.50	25	4	0000—2400	
36		SIBOLGA	INS	98E48 01N42	A18	0.5	0.50	25	4	0000—2400	
37		SIDOARJO	INS	112E43 07S28	A18	0.5	0.50	75	3	0000—2400	
38		SINGARADJA	INS	115E05 08S06	A18	0.5	0.50	75	3	0000—2400	
39		SOLOK SUMATRA	INS	100E39 00S48	A18	0.5	0.50	25	4	0000—2400	
40		SORONG	INS	131E17 00S50	A18	0.5	0.50	25	4	0000—2400	
41		SUBANG	INS	107E45 06S34	A18	0.5	0.50	25	4	0000—2400	
42		SUKABUMI	INS	106E55 06S50	A18	0.5	0.50	75	3	0000—2400	
43		SUMENEP	INS	113E51 07S00	A18	0.5	0.50	25	4	0000—2400	
44		SURABAJA	INS	112E45 07S15	A18	0.5	0.50	75	3	0000—2400	
45		SURAKARTA	INS	110E49 07S34	A18	0.5	0.50	25	4	0000—2400	
46		TASIKMALAJA	INS	108E13 07S19	A18	0.5	0.50	25	4	0000—2400	
47		TEGAL	INS	109E08 06S52	A18	0.5	0.50	75	3	0000—2400	
48		TELUKBETUNG	INS	105E16 05S27	A18	0.5	0.50	75	3	0000—2400	
49		TEMANGGUNG	INS	110E10 07S19	A18	0.5	0.50	75	3	0000—2400	
50		TERNATE	INS	127E23 00N48	A18	0.5	0.50	25	4	0000—2400	
51		TJIAMIS	INS	108E20 07S19	A18	0.5	0.50	75	3	0000—2400	
52		TJIREBON	INS	108E34 06S42	A18	0.5	0.50	25	4	0000—2400	
53		TOMOHON	INS	124E50 01N19	A18	0.5	0.50	25	4	0000—2400	
54		TONDANO	INS	124E45 01N22	A18	0.5	0.50	75	3	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	UJUNGPANDANG	INS	119E25 05S09	A18	0.5	0.50	75	3	0000–2400	
2	(118)	WONOSOBO	INS	109E59 07S21	A18	0.5	0.50	25	4	0000–2400	
3		BALLINGEARY	IRL	09W10 51N50	A20	1	1.00	50	5	0000–2400	
4		BANGORERRIS	IRL	09W50 54N07	A20	1	1.00	50	5	0000–2400	
5		WEXFORD	IRL	06W25 52N12	A20	1	1.00	50	4	0000–2400	
6		BAFQ	IRN	55E21 31N35	A20	1	1.00	48	5	0200–2200	
7		BORUJERD	IRN	48E50 33N52	A20	1	1.00	48	5	0200–2200	
8		CHAHBAHAR	IRN	60E41 25N16	A20	1	1.00	48	4	0200–2200	
9		DEHLORAN	IRN	47E18 32N41	A20	1	1.00	48	5	0200–2200	
10		HAMADAN	IRN	48E43 35N12	A20	1			3	0100–2200	
11		ILAM	IRN	46E25 33N39	A20	1			3	0100–2200	
12		KOHKILOUYEH	IRN	50E34 30N47	A20	1	1.00	48	5	0200–2200	
13		MASJIDSULAIMAN	IRN	49E07 31N56	A20	1	1.00	48	5	0200–2200	
14		MOGHAN	IRN	48E00 39N40	A20	1			3	0100–2200	
15		SHAHROOD	IRN	55E02 36N34	A20	1	1.00	48	5	0200–2200	
16		SIRJAN	IRN	55E41 29N27	A20	1			3	0100–2200	
17		TORBATHEIDARIE	IRN	59E13 35N16	A20	1	1.00	48	4	0200–2200	
18		ZABOL	IRN	61E32 31N00	A20	1	1.00	48	5	0200–2200	
19		ATLIT	ISR	34E58 32N45	A 9	1	1.00	40	3	0000–2400	
20		SEDOM	ISR	35E23 31N10	A 9	1	1.00	40	4	0000–2400	
21		ATSUMI	J	139E35 38N37	A15	0.1	0.10	71	5	0000–2400	
22		FUJIYOSHIDA	J	138E49 35N30	A15	0.1	0.13	67	5	0000–2400	
23		FUKAURA AOMORI	J	139E56 40N39	A15	0.1	0.13	71	5	0000–2400	
24		HARANOMACHI	J	140E56 37N37	A15	0.1	0.13	75	5	0000–2400	
25		HIKIMI	J	132E01 34N34	A15	0.1	0.10	71	5	0000–2400	
26		HINO	J	133E24 35N13	A15	0.1	0.13	71	5	0000–2400	
27		HIRO	J	143E19 42N18	A15	0.1	0.10	71	5	0000–2400	
28		KANNONJI	J	133E41 34N08	A15	0.1	0.10	67	5	0000–2400	
29		KARATSU	J	130E00 33N27	A15	0.1	0.10	47	5	0000–2400	
30		KASUMI	J	134E38 35N38	A15	0.1	0.13	71	5	0000–2400	
31		KATSUYAMA KAN	J	136E32 36N01	A15	0.1	0.13	71	5	0000–2400	
32		KOSAKA	J	140E44 40N19	A15	0.1	0.10	71	5	0000–2400	
33		MIYOSHI	J	132E51 34N48	A15	0.1	0.10	71	5	0000–2400	
34		MUGI	J	134E25 33N40	A15	0.1	0.10	71	5	0000–2400	
35		NEMURO	J	145E36 43N20	A15	0.1	0.10	67	4	0000–2400	
36		OKAYA SUWA	J	138E04 36N03	A15	0.1	0.13	67	5	0000–2400	
37		SHIMABARA	J	130E23 32N47	A15	0.1	0.13	71	5	0000–2400	
38		SHINKITAMI	J	143E52 43N48	A15	0.1	0.10	71	4	0000–2400	
39		SUSAMI	J	135E30 33N33	A15	0.1	0.13	71	5	0000–2400	
40		TADAMI	J	139E22 37N18	A15	0.1	0.10	71	5	0000–2400	
41		TAKACHIHO	J	131E18 32N42	A15	0.1	0.10	71	5	0000–2400	
42		UWA	J	132E30 33N22	A15	0.1	0.10	71	5	0000–2400	
43		WAJIMA	J	136E55 37N22	A15	0.1	0.13	71	5	0000–2400	
44		YUZAWA	J	140E29 39N08	A15	0.1	0.10	71	5	0000–2400	
45		GALOLE	KEN	40E02 01S30	A 9	1	1.00	50	4	0200–2100	
46		KITUI	KEN	38E00 01S22	A 9	1	1.00	50	4	0200–2100	
47		LODWAR	KEN	35E35 03N05	A 9	1		100	4	0200–2100	
48		MAGADI	KEN	36E10 01S10	A 9	1	1.00	50	4	0200–2100	
49		MOYALE	KEN	39E12 03N32	C 9	1	1.00	50	4	0200–2100	
50		NAROK	KEN	35E57 01S07	A 9	1	1.00	50	4	0200–2100	
51		WAJIR	KEN	40E02 01N42	A 9	1		130	4	0200–2100	
52		KUCHONDONG	KOR	127E46 35N54	A10	1	1.00	80	6	0000–2400	
53		SANCHEONG	KOR	127E52 35N25	A10	1	1.00	80	4	0000–2400	
54		TANYANG	KOR	128E19 36N56	A10	1	1.00	120	6	0000–2400	

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	1	2	3	4	5	6	7	8	9	10	11
1	1584	BEDA	LBY	18E50 28N10	A20	1	1.00	47	5	0400–2400	
2	(118)	MISURATA	LBY	15E05 32N46	A20	1	1.00	94	6	0400–2400	
3		MIZDA	LBY	13E10 31N10	A20	1	1.00	47	5	0400–2400	
4		MRADA	LBY	19E20 29N05	A20	1	1.00	47	5	0400–2400	
5		ZELA	LBY	17E20 28N30	A20	1	1.00	47	5	0400–2400	
6		AMBATO BOENI	MDG	46E45 16S30	A 9	1	1.00	47	4	0300–2000	
7		AMBATOLAMPY	MDG	47E28 19S23	A 9	1	1.00	48	4	0300–2000	
8		AMBILOBE	MDG	49E08 13S11	A 9	1	1.00	47	4	0300–2000	
9		AMBOVOMBE	MDG	46E05 25S11	A 9	1	1.00	48	4	0300–2000	
10		ANDILAMENA	MDG	48E32 17S02	A 9	1	1.00	138	4	0300–2000	
11		ANJOZOROBE	MDG	47E52 18S24	A 9	1	1.00	48	4	0300–2000	
12		ATOFINANDRAHAN	MDG	46E47 20S31	A 9	1	1.00	59	4	0300–2000	
13		BEALANANA	MDG	48E45 14S33	A 9	1	1.00	62	4	0300–2000	
14		BELO	MDG	44E30 19S45	A 9	1	1.00	48	4	0300–2000	
15		BEROROHA	MDG	45E08 21S41	A 9	1	1.00	48	4	0300–2000	
16		BETIOKY	MDG	44E23 23S42	A 9	1	1.00	60	4	0300–2000	
17		BRICKAVILLE	MDG	49E04 18S50	A 9	1	1.00	48	4	0300–2000	
18		IVOHIBE	MDG	46E58 22S30	A 9	1	1.00	216	4	0300–2000	
19		MAHANORO	MDG	48E48 19S53	A 9	1	1.00	48	4	0300–2000	
20		MANANARA	MDG	49E46 16S10	A 9	1	1.00	47	4	0300–2000	
21		MANANJARY	MDG	48E22 21S12	A 9	1	1.00	48	4	0300–2000	
22		MANDRITSARA	MDG	48E47 15S57	A 9	1	1.00	130	4	0300–2000	
23		MIDONGY DU SUD	MDG	47E01 23S35	A 9	1	1.00	68	4	0300–2000	
24		MORAFENOBE	MDG	44E52 17S52	A 9	1	1.00	56	4	0300–2000	
25		SAMBAVA	MDG	50E10 14S13	A 9	1	1.00	47	4	0300–2000	
26		SOALALA	MDG	45E30 16S05	A 9	1	1.00	48	4	0300–2000	
27		TSIROANOMANDID	MDG	46E03 18S46	A 9	1	1.00	47	4	0300–2000	
28		SANTANA	MDR	16W54 32N47	A20	1	1.00	50	4	0000–2400	
29		GENTING HLANDS	MLA	101E49 03N25	A20	1	1.00	47	5	2200–1700	
30		GUA MUSANG	MLA	101E57 04N55	A20	1	1.00	47	5	2200–1700	
31		TAMPASIS	MLA	116E51 05N52	A20	1	1.00	47	5	2200–1700	
32		DOUENTZA	MLI	02W57 15N00	A 9	1		65		0600–2400	
33		KE MACINA	MLI	05W22 13N58	A 9	1		222		0600–2400	
34		KIDAL	MLI	01E24 18N26	A 9	1		47		0600–2400	
35		KITA	MLI	09E29 13N02	A 9	1		47		0600–2400	
36		YELIMANE	MLI	10W37 15N07	A 9	1		98		0600–2400	
37		SAN LEONARDO	MLT	14E33 35N53	D 9	1	1.00	47	4	0000–2400	
38		ALTAI	MNG	96E10 46N30	A18	1	1.00	120	5	2200–1500	
39		ARWAIHER	MNG	102E20 46N20	A18	1	1.00	120	5	2200–1500	
40		BULAGAN	MNG	103E20 48N50	A18	1	1.00	120	5	2200–1500	
41		DARHAN	MNG	106E00 49N00	A18	1	1.00	120	4	2200–1500	
42		TCHOIBOLSAN	MNG	114E30 48N05	A18	1	1.00	120	4	2200–1500	
43		TSETSERLIG	MNG	101E10 47N30	A18	1	1.00	120	5	2200–1500	
44		UBURKHANGAI	MNG	102E20 46N20	A18	1	1.00	120	5	2200–1500	
45		ULAN BATOR	MNG	107E00 47N55	A18	1	1.00	120	4	2200–1500	
46		ULAN GOM	MNG	92E00 50N00	A18	1	1.00	120		2200–1500	
47		ULGEI	MNG	89E48 49N08	A18	1	1.00	120	5	2200–1500	
48		UNDERHAN	MNG	102E55 46N10	A18	1	1.00	120	4	2200–1500	
49		FURANCUNGO	MOZ	33E40 14S56	A10	0.5				0400–2200	
50		MAPAI	MOZ	32E00 22S50	A10	1	1.00	31	4	0400–2200	
51		MECULA	MOZ	37E38 11S06	A10	1	1.00	31	4	0400–2200	
52		V GOUVEIA	MOZ	33E11 18S04	A10	0.5				0400–2200	
53		BOUARFA	MRC	01W49 32N49	A20	0.5	0.50	50	5	0600–2400	
54		KENITRA	MRC	06W36 34N18	C 9	0.2	0.04	36	3	0000–2400	

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	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	NADOR	MRC	02W55 34N58	A12	1	1.00	50	4	0600–2400	
2	(118)	OURZAZATE	MRC	06W50 30N55	A18	1	1.00	50	5	0600–2400	
3		SIDIBENNOUR	MRC	08W17 32N44	A18	1	1.00	50	6	0600–2400	
4		TANGER	MRC	05W50 35N45	A12	1	1.00	50	5	0600–2400	
5		MOUDJERIA	MTN	12W19 17N52	A 9	1	1.00	54	5	0700–2300	
6		ZOMBA	MWI	35E18 15S23	A20	0.3	0.30	47	3	0200–2300	
7		ARLIT	NGR	07E20 18N50	A 9	1	1.00	47	4	0000–2400	
8		BIRNI NKONNI	NGR	05E15 13N48	A 9	1	1.00	47	4	0000–2400	
9		GOURE	NGR	10E10 14N00	A 9	1			4	0000–2400	
10		TANOUT	NGR	08E52 14N58	A 9	1	1.00	47	4	0000–2400	
11		TCHINTABADEN	NGR	07E47 15N54	A 9	1	1.00	47	4	0000–2400	
12		TILLABERY	NGR	01E28 14N12	A 9	1	1.00	47	4	0000–2400	
13		BRASS YENAGOA	NIG	06E15 04N15	C 9	1	1.00	75	4	0500–2300	
14		JOS 2	NIG	08E53 09N52	C 9	1	1.00	75	4	0500–2300	
15		KATSINA 2	NIG	07E34 12N55	C 9	1	1.00	70	4	0500–2300	
16		OKIGWI	NIG	07E20 05N50	C 9	1	1.00	71	4	0500–2200	
17		BAJURA	NPL	81E22 29N22	A20	1	0.50	60	5	2200–1900	
18		GORKHA	NPL	84E38 28N02	A20	1	0.50	60	5	2200–1900	
19		KAIGAON	NPL	82E48 29N02	A20	1	0.50	60	5	2200–1900	
20		RAMECHHAP	NPL	86E04 27N20	A20	1	0.50	60	5	2200–1900	
21		NAURU ISLAND	NRU	166E56 00S33	A 9	1	1.00	40	6	2000–1200	
22		DANNEVIRKE	NZL	176E08 40S12	A20	1	1.00	50	4	0000–2400	
23		DADU	PAK	67E45 26N45	A20	1	0.79	49	4	0000–2000	
24		NAHAQI	PAK	71E30 33N36	A20	1	0.79	26	4	0000–1400	
25		RATODERO	PAK	68E10 27N24	A20	1	0.79	62	4	0000–1400	
26		SHAHDAB	PAK	73E50 31N45	A20	1	0.79	27	3	0000–2000	
27		BRANIEWO	POL	19E50 54N24	A20	1	1.00	47	5	0000–2400	
28		BUSKO ZDROJ	POL	20E44 50N28	A20	1	1.00	47	5	0000–2400	
29		CHELM	POL	23E29 51N09	A20	1	1.00	47	5	0000–2400	
30		GLUBCZYCE	POL	17E49 50N12	A20	1	1.00	47	5	0000–2400	
31		HAJNOWKA	POL	23E36 52N45	A20	1	1.00	47	5	0000–2400	
32		IWONICZ ZDROJ	POL	21E48 49N35	A20	1	1.00	47	5	0000–2400	
33		KONSKIE	POL	20E25 51N11	A20	1	1.00	47	5	0000–2400	
34		KRYNICA	POL	20E59 49N26	A20	1	1.00	47	5	0000–2400	
35		LESNA	POL	15E15 51N01	A20	1	1.00	47	5	0000–2400	
36		OSTRODA	POL	19E57 53N42	A20	1	1.00	47	5	0000–2400	
37		OSTRZESZOW	POL	17E57 51N25	A20	1	1.00	47	5	0000–2400	
38		RUCIANE	POL	21E38 53N39	A20	1	1.00	47	5	0000–2400	
39		RZEPIN	POL	14E52 52N20	A20	1	1.00	47	5	0000–2400	
40		SWIDWIN	POL	15E46 53N47	A20	1	1.00	47	5	0000–2400	
41		TARNOBRZEG	POL	21E42 50N38	A20	1	1.00	47	5	0000–2400	
42		USTKA	POL	16E52 54N35	A20	1	1.00	47	5	0000–2400	
43		USTRZYKI	POL	22E37 49N26	A20	1	1.00	47	5	0000–2400	
44		WADOWICE	POL	19E30 49N53	A20	1	1.00	47	5	0000–2400	
45		GUARDA	POR	07W17 40N32	A20	1	1.00	50	4	0000–2400	
46		BACAU 2	ROU	26E50 46N30	A20	1	1.00	50	5	0300–2300	
47		CIMPENI	ROU	23E05 46N23	A20	1	1.00	50	5	0300–2300	
48		CRAIOVA	ROU	23E49 44N20	A20	1	1.00	50	6	0300–2300	
49		FAGARAS	ROU	24E57 45N52	A20	1	1.00	50	3	0300–2300	
50		GALATI	ROU	27E54 45N25	A20	1	1.00	50	4	0300–2300	
51		IASI	ROU	27E35 47N07	A20	1	1.00	50	4	0300–2300	
52		ILVA	ROU	24E48 47N47	A20	1	1.00	50	5	0300–2300	
53		OTELUL ROSU	ROU	22E25 45N25	A20	1	1.00	50	5	0300–2300	
54		RADAUTIPRUT	ROU	26E46 48N06	A20	1	1.00	50	5	0300–2300	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	SF GHEORGHE	ROU	29E31 44N50	A20	1	1.00	50	3	0300—2300	
2	(118)	SIGHET	ROU	23E56 47N46	A20	1	1.00	50	6	0300—2300	
3		SINICOLAUL MAR	ROU	20E36 46N05	A20	1	1.00	50	2	0300—2300	
4		SUCEAVA	ROU	25E46 47N37	A20	1	1.00	50	5	0300—2300	
5		URZICENI	ROU	26E50 44N45	A20	1	1.00	50	4	0300—2300	
6		ZIMNICEA	ROU	25E30 43N45	A20	1	1.00	50	4	0300—2300	
7		AROMA	SDN	36E12 15N49	A20	1	1.00	47	3	0400—2400	
8		ATBARA	SDN	33E59 17N40	A20	1	1.00	47	4	0400—2400	
9		AWEIL	SDN	27E24 08N46	A20	1	1.00	47	4	0400—2400	
10		BENTIU	SDN	29E50 09N14	A20	1	1.00	47	3	0400—2400	
11		DILLING	SDN	29E39 12N03	A20	1	1.00	47	3	0400—2400	
12		ED DAMAZIN	SDN	34E24 11N39	A20	1	1.00	47	3	0400—2400	
13		KAPOETA	SDN	33E35 04N46	A20	1	1.00	47	3	0400—2400	
14		KARIMA	SDN	31E46 18N30	A20	1	1.00	47	3	0400—2400	
15		KHARTOUM	SDN	32E31 15N36	A20	1	1.00	47	3	0400—2400	
16		MARIDI	SDN	29E28 04N55	A20	1	1.00	47	3	0400—2400	
17		TOKAR	SDN	37E44 18N26	A20	1	1.00	47	4	0400—2400	
18		UMM RUWABA	SDN	31E13 12N53	A20	1	1.00	47	3	0400—2400	
19		WAD MEDANI	SDN	33E32 14N24	A20	1	1.00	47	2	0400—2400	
20		SINGAPORE 2	SNG	103E50 01N25	A20	0.5	0.50	50	5	2200—1800	
21		DEIR 3	SYR	40E12 35N25	A20	1	1.00	50	5	0300—2400	
22		GORE DU SUD	TCD	16E38 07N56	A 9	0.1				0400—2300	
23		HARAZE	TCD	19E25 14N13	A 9	0.1				0400—2300	
24		MARO	TCD	18E47 08N24	A 9	0.1				0400—2300	
25		NGOURI	TCD	15E22 13N38	A 9	0.1				0400—2300	
26		ZOUAR	TCD	16E32 20N27	A 9	0.1				0400—2300	
27		BRATISLAVA	TCH	17E08 48N09	C 9	1	1.00		5	0000—2400	
28		BRNO MESTO	TCH	16E37 49N12	C 9	1	1.00		5	0000—2400	
29		C BUDEJOVICE	TCH	14E30 48N58	A20	1	0.63	60	5	0000—2400	
30		KOSICE MESTO	TCH	21E15 48N43	C 9	1	1.00		5	0000—2400	
31		OPAVA	TCH	17E53 49N57	A20	1	0.63	60	5	0000—2400	
32		OSTRAVA MESTO	TCH	18E18 49N50	C 9	1	1.00		5	0000—2400	
33		PARDUBICE	TCH	15E47 50N02	A20	1	0.63	60	5	0000—2400	
34		PRAHA MESTO	TCH	14E24 50N06	C 9	1	1.00		5	0000—2400	
35		ZNOJMO	TCH	16E03 48N52	A20	1	0.63	60	5	0000—2400	
36		IRINGA	TGK	35E50 07S25	A 9	1	1.00	47	4	0300—2100	
37		KONDOA	TGK	35E50 05S10	A 9	1	1.00	47	4	0300—2100	
38		LIWALE	TGK	38E00 09S40	A 9	1	1.00	47	4	0300—2100	
39		MASWA	TGK	34E20 02S40	A 9	1	1.00	47	4	0300—2100	
40		BASSAR	TGO	01E10 09N05	A 9	1	1.00	47	4	0500—2300	
41		NOTSE	TGO	01E10 06N45	A 9	1	1.00	47	4	0500—2300	
42		BETONG	THA	101E04 05N46	A20	1	1.00	47	3	2300—1700	
43		CHIANG MAI	THA	98E59 18N46	A20	1	1.00	30	5	2300—1500	
44		PHUKET	THA	98E23 07N51	A20	1	1.00	47	3	2300—1700	
45		SURAT THANI	THA	99E20 09N09	A20	1	1.00	47	3	2300—1700	
46		GABES	TUN	10E00 33N55	D20	1	1.00	48	4	0000—2400	
47		KASSERINE	TUN	08E50 35N05	D20	1	1.00	48	4	0000—2400	
48		NABEUL	TUN	10E09 36N20	D20	1	1.00	48	4	0000—2400	
49		TABARKA	TUN	08E50 36N57	D20	1	1.00	48	4	0000—2400	
50		TUNIS	TUN	10E02 36N50	D20	1	1.00	48	4	0000—2400	
51		FETHIYE	TUR	29E09 36N37	A20	1	1.00	43	4	0200—2300	
52		GIRESUN	TUR	38E24 40N55	A20	1	1.00	43	4	0200—2300	
53		MARMARIS	TUR	28E16 36N52	A20	1	1.00	43	4	0200—2300	
54		PAZAR	TUR	41E00 41N11	A20	1	1.00	43	4	0200—2300	

	1		2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1584		KASESE	UGA	30E00 00N00	A 9	1	1.00	47	4	0300–2100	
2	(118)		MOROTO	UGA	34E39 02N30	A 9	1	1.00	47	4	0300–2100	
3			DONETSK	UKR	37E29 47N56	A20	1	1.00	120	4	0000–2400	
4			IZMAIL	UKR	28E51 45N20	A20	1	1.00	120	4	0000–2400	
5			JDANOV	UKR	37E31 47N06	A20	1	1.00	120	4	0000–2400	
6			KAMYCH ZARIA	UKR	36E35 45N20	A20	1	1.00	120	4	0000–2400	
7			KHARKOV	UKR	36E14 49N58	A20	1	1.00	120	4	0000–2400	
8			KIROVOGRAD	UKR	32E20 48N30	A20	1	1.00	120	4	0000–2400	
9			LUTSK	UKR	25E20 50N45	A20	1	1.00	120	4	0000–2400	
10			ODESSA	UKR	30E45 46N29	A20	1	1.00	120	4	0000–2400	
11			STAROBELSK	UKR	38E34 49N35	A20	1	1.00	120	4	0000–2400	
12			TCHERNIGOV	UKR	31E19 51N29	A20	1	1.00	120	4	0000–2400	
13			TCHERNOVITSY	UKR	25E55 48N20	A20	1	1.00	120	4	0000–2400	
14			VINNITSA	UKR	28E28 49N14	A20	1	1.00	120	4	0000–2400	
15			VOLOTCHISK	UKR	26E12 49N36	A20	1	1.00	120	4	0000–2400	
16			ALEKSANDROV SA	URS	142E18 50N58	A18	1	1.00	120	4	0000–2400	
17			ALMA ATA	URS	77E00 43N17	A18	1	1.00	120	4	0000–2400	
18			ANDIJAN	URS	72E27 40N47	A18	1	1.00	120	4	0000–2400	
19			BIROBIDJAN	URS	133E00 49N16	A18	1	1.00	120	4	0000–2400	
20			CHERSKI	URS	162E00 67N30	A20	1	1.00	120	4	0000–2400	
21			ENISEISK	URS	92E00 58N15	A20	1	1.00	120	4	0000–2400	
22			EREVAN	URS	44E25 40N11	A20	1	1.00	120	4	0000–2400	
23		S	GDOV	URS	27E51 58N41	A18	1	1.00	120	4	0000–2400	
24			GREMIHA	URS	39E52 68N03	A20	1	1.00	120	4	0000–2400	
25			GROZNE	URS	45E38 43N19	A20	1	1.00	120	4	0000–2400	
26			INTA	URS	60E00 66N00	A20	1	1.00	120	4	0000–2400	
27		S	JVANOFRANKOVSK	URS	24E32 48N36	A18	1	1.00	120	4	0000–2400	
28			KALEVALA	URS	31E11 65N13	A18	1	1.00	120	4	0000–2400	
29			KAMEN OBI	URS	81E19 54N40	A20	1	1.00	120	4	0000–2400	
30			KAUNAS	URS	23E54 54N52	A18	1	1.00	120	4	0000–2400	
31			KAZAN	URS	49E08 55N47	A20	1	1.00	120	4	0000–2400	
32			KEGMA	URS	100E28 50N06	A20	1	1.00	120	4	0000–2400	
33			KEMEROVO	URS	86E00 55N22	A20	1	1.00	120	4	0000–2400	
34			KHABAROVSK	URS	135E10 48N33	A18	1	1.00	120	4	0000–2400	
35			KHATANGA	URS	102E30 72N00	A20	1	1.00	120	4	0000–2400	
36			KIROVABAD	URS	46E21 40N39	A20	1	1.00	120	4	0000–2400	
37			KURGAN	URS	65E17 55N29	A20	1	1.00	120	4	0000–2400	
38			LENDERY	URS	31E12 63N30	A18	1	1.00	120	4	0000–2400	
39			LENINOGORSK	URS	83E30 51N30	A20	1	1.00	120	4	0000–2400	
40			LIEPAJA	URS	21E02 56N39	A20	1	1.00	120	4	0000–2400	
41		S	LIPETSK	URS	39E35 52N38	A18	1	1.00	120	4	0000–2400	
42			MADONA	URS	26E13 56N49	A18	1	1.00	120	4	0000–2400	
43			MARY	URS	61E50 37N35	A18	1	1.00	120	4	0000–2400	
44			MOSKVA	URS	37E38 55N45	A20	1	1.00	120	4	0000–2400	
45			MURGAB	URS	74E02 38N11	A20	1	1.00	120	4	0000–2400	
46			NEBIT DAG	URS	54E03 39N20	A18	1	1.00	120	4	0000–2400	
47			NIKOLAEVSK AMU	URS	140E42 53N10	A20	1	1.00	120	4	0000–2400	
48			OLENEK	URS	112E00 68N12	A20	1	1.00	120	4	0000–2400	
49			ORDJONIKIDZE	URS	44E21 43N01	A18	1	1.00	120	4	0000–2400	
50			ORSK	URS	58E44 51N13	A20	1	1.00	120	4	0000–2400	
51			OSINOVO	URS	90E00 61N12	A20	1	1.00	120	4	0000–2400	
52			RIAZAN	URS	39E15 54N35	A20	1	1.00	120	4	0000–2400	
53			SAMBURG	URS	77E30 67N45	A20	1	1.00	120	4	0000–2400	
54			SHARY	URS	45E30 58N21	A20	1	1.00	120	4	0000–2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11
1	1584		SHVEDCHIKI	URS	54E30 43N54	A20	1	1.00	120	4	0000—2400	
2	(118)	S	SMOLENSK	URS	31E43 54N48	A18	1	1.00	120	4	0000—2400	
3			SUKHUMI	URS	41E02 43N00	A18	1	1.00	120	4	0000—2400	
4			TAISHET	URS	98E01 55N57	A20	1	1.00	120	4	0000—2400	
5			TBILISI	URS	44E30 41N40	A18	1	1.00	120	4	0000—2400	
6			TROIZSKOE	URS	136E34 49N30	A20	1	1.00	120	4	0000—2400	
7			TULA	URS	37E37 54N12	A20	1	1.00	120	4	0000—2400	
8			TURUHANSK	URS	87E57 65N47	A20	1	1.00	120	4	0000—2400	
9			UGLEGORSK	URS	142E15 48N59	A18	1	1.00	120	4	0000—2400	
10			UST BOLSHEREZK	URS	156E00 52N52	A20	1	1.00	120	4	0000—2400	
11			VALMIERA	URS	25E29 57N32	A18	1	1.00	120	4	0000—2400	
12			VECHINTOS	URS	25E00 55N40	A18	1	1.00	120	4	0000—2400	
13			VILNUS	URS	25E15 54N40	A20	1	1.00	120	4	0000—2400	
14			VIZENGA	URS	63E12 67N16	A20	1	1.00	120	4	0000—2400	
15			VLADIVOSTOK	URS	131E53 43N07	A18	1	1.00	120	4	0000—2400	
16			DHAMAR	YEM	44E33 14N30	A 9	1	1.00	48	3	0300—2200	
17			BEIHAN	YMS	46E17 15N00	A 9	1	1.00	48	4	0300—2200	
18			JAAR	YMS	45E20 13N75	A 9	1		48	4	0300—2200	
19			BAR	YUG	19E05 42N05	D20	1	0.63	60	3	0000—2400	
20			BELI MANASTIR	YUG	18E37 45N47	D20	1	0.50	40	3	0000—2400	
21			BOS PETROVAC	YUG	16E22 44N34	D20	1	0.50	40	5	0000—2400	
22			BOSILEGRAD	YUG	22E29 42N30	D20	1	0.50	40	5	0000—2400	
23			BOVEC	YUG	13E34 46N20	D20	0.1	0.05	40	7	0000—2400	
24			BRATUNAC	YUG	19E20 44N12	D20	1	0.50	40	4	0000—2400	
25			BREZICE	YUG	15E37 45N54	D20	1	0.50	50	4	0000—2400	
26			CAVTAT	YUG	18E15 42N37	D20	1	0.50	40	5	0000—2400	
27			DARUVAR	YUG	17E13 45N35	D20	1	0.50	40	4	0000—2400	
28			DECANI	YUG	20E18 42N32	D20	1	0.50	40	5	0000—2400	
29			DESPOTOVAC	YUG	21E27 44N05	D20	0.3	0.15	40	3	0000—2400	
30			DIMITROVGRAD	YUG	22E47 43N00	D20	1	0.50	40	5	0000—2400	
31			GLAMOC	YUG	16E51 44N06	D20	1	0.50	40	5	0000—2400	
32			IMOTSKI	YUG	17E15 43N27	D20	1	0.50	40	5	0000—2400	
33			KNIC	YUG	20E43 44N56	D20	0.3	0.15	40	4	0000—2400	
34			KNJAZEVAC	YUG	22E16 43N33	D20	1	0.50	40	3	0000—2400	
35			KOCEVJE	YUG	14E52 45N38	D20	1	0.50	40	5	0000—2400	
36			KUMANOVO	YUG	21E44 42N09	D20	1	0.50	40	3	0000—2400	
37			KURSUMLIJA	YUG	21E16 43N07	D20	0.3	0.15	40	4	0000—2400	
38			MAJDANPEK	YUG	21E58 44N26	D20	0.3	0.15	40	5	0000—2400	
39			MARIBOR 2	YUG	15E40 46N32	D20	1	1.00	60	4	0000—2400	
40			MRKONJIC GRAD	YUG	17E05 44N25	D20	1	0.50	40	5	0000—2400	
41			NOVI PAZAR	YUG	20E31 43N10	D20	1	0.50	40	5	0000—2400	
42			OGULIN	YUG	15E14 45N13	D20	1	0.50	40	5	0000—2400	
43			OMIS	YUG	16E45 43N25	D20	0.1	0.05	40	5	0000—2400	
44			PANCEVO	YUG	20E38 44N52	D20	1	0.50	40	3	0000—2400	
45			PLOCE	YUG	17E28 43N02	D20	0.1	0.05	40	5	0000—2400	
46			PRIJEDOR	YUG	16E48 44N57	D20	1	0.50	40	4	0000—2400	
47			PRIJEPOLJE	YUG	19E40 43N24	D20	0.3	0.15	40	5	0000—2400	
48			PRILEP	YUG	21E34 41N21	D20	1	0.50	40	5	0000—2400	
49			PULA	YUG	13E50 44N50	D20	1	0.50	40	4	0000—2400	
50			RADOVIS	YUG	22E39 41N27	D20	1	0.50	40	5	0000—2400	
51			ROZAJE 2	YUG	20E10 42N50	D20	1	0.50	40	5	0000—2400	
52			SENJ	YUG	14E55 45N00	D20	1	0.50	40	7	0000—2400	
53			SEZANA	YUG	13E53 45N52	D20	1	0.50	40	4	0500—1700	
54			SL BROD	YUG	18E01 45N10	D20	1	0.50	40	4	0000—2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1584	TETOVO	YUG	20E59 42N01	D20	1	0.50	40	6	0000—2400	
2	(118)	TOLMIN	YUG	13E45 46N11	D20	0.1	0.05	40	6	0000—2400	
3		TRZIC	YUG	14E18 46N22	D20	1	0.50	40	9	0000—2400	
4		UROSEVAC	YUG	21E10 42N22	D20	1	0.50	40	5	0000—2400	
5		VARAZDIN	YUG	16E19 46N23	D20	1	0.50	40	4	0000—2400	
6		VLADICIN HAN	YUG	22E04 42N42	D20	0.3	0.15	40	5	0000—2400	
7		VLASOTINCE	YUG	22E08 42N57	D20	0.3	0.15	40	4	0000—2400	
8		ISOKA	ZMB	32E35 10S10	A20	1	1.00	19	4	0200—2100	
9		KAOMA	ZMB	24E48 14S48	A20	1	1.00	19	4	0200—2100	
10		LUNDAZI	ZMB	33E10 12S15	A20	1	1.00	19	4	0200—2100	
11		MWINILUNGA	ZMB	24E27 11S43	A20	1	1.00	47	4	0200—2100	
12		NAMWALA	ZMB	26E30 15S45	A20	1	1.00	19	4	0200—2100	
13		SERENJE	ZMB	30E40 12S53	A20	1	1.00	19	4	0200—2100	
14		SESHEKE	ZMB	24E20 17S25	A20	1	1.00	19	4	0200—2100	

1	Assigned frequency (kHz) (Channel number)		2 Name of transmitting station	3 Country symbol	4 Geographical coordinates of transmitting station	5 Necessary bandwidth (kHz)	6 Carrier power (kW)	7 Effective monopole radiated power (e.m.r.p.) (kW)	8 Antenna height (m)	9 Ground conductivity (mS/m)	10 Hours of operation (UTC)	11 Remarks
1	1602		GARDEZ	AFG	69E02 35N06	A 9	1	1.00	47	4	0000–2400	
2	(120)		KALAT	AFG	66E09 32N04	A 9	1	1.00	43	4	0000–2400	
3			PULLKHOMRI	AFG	68E08 35N09	A 9	1	1.00	47	4	0000–2400	
4			SHEENDAND	AFG	62E02 33N06	A 9	1	1.00	47	4	0000–2400	
5			HUAMBO	AGL	15E42 12S45	A10	1	1.00	50	3	0000–2400	
6			BAJRAM CURRI	ALB	20E05 42N20	A20	1	0.63	50	6	0400–2300	
7			ANNABA	ALG	07E46 36N58	A20	1				0600–2400	
8			AOULEF	ALG	01E05 27N10	A20	1				0600–2400	
9			DJELFA	ALG	02E50 34N50	A20	1				0600–2400	
10			ASCENSION I	ASC	14W24 07S57	A20	1	0.79	55	9	0000–2400	
11			CAMPBELLTW NSW	AUS	150E44 34S06	A20	0.1		43	3	0000–2400	
12			COOMA NSW	AUS	149E08 36S13	A20	0.1		24	5	1900–1400	
13			LEIGH CREEK SA	AUS	138E25 30S29	A20	0.1		22	3	1900–1400	
14			WARRNAMBOOL VC	AUS	142E30 38S22	A20	0.2		30	2	1900–1400	
15			ADMONT	AUT	14E28 47N35	D 9	0.1	0.10	15	6	0000–2400	
16			BAD GOISERN	AUT	13E37 47N38	D 9	0.1	0.10	15	6	0000–2400	
17			BISCHOFSHOFEN	AUT	13E13 47N25	D 9	0.1	0.10	15	6	0000–2400	
18			EISENKAPPEL	AUT	14E35 46N29	D 9	0.1	0.10	15	6	0000–2400	
19			GMUEND KAERNT	AUT	13E31 46N55	D 9	0.1	0.10	15	6	0000–2400	
20			IMST	AUT	10E45 47N15	D 9	0.1	0.10	15	6	0000–2400	
21			JUDENBURG	AUT	14E39 47N09	D 9	0.1	0.10	15	6	0000–2400	
22			KITZBUEHEL	AUT	12E24 47N27	D 9	0.1	0.10	15	6	0000–2400	
23			LEND	AUT	13E03 47N18	D 9	0.1	0.10	15	6	0000–2400	
24			MUERZZUSCHLAG	AUT	15E40 47N36	D 9	0.1	0.10	15	6	0000–2400	
25			OBERWOELZ	AUT	14E17 47N12	D 9	0.1	0.10	15	6	0000–2400	
26			PFUNDS	AUT	10E32 46N58	D 9	0.1	0.10	15	6	0000–2400	
27			S ANTON ARLBG	AUT	10E17 47N08	D 9	0.1	0.10	15	6	0000–2400	
28			S GALLENKIRCH	AUT	09E58 47N01	D 9	0.1	0.10	15	6	0000–2400	
29			S LAMBRECHT	AUT	14E18 47N04	D 9	0.1	0.10	15	6	0000–2400	
30			WOERGL	AUT	12E04 47N30	D 9	0.1	0.10	15	6	0000–2400	
31			ZWETTL	AUT	15E10 48N36	D 9	0.1	0.10	15	6	0000–2400	
32			BUTAHANA	BDI	29E13 02S47	A 9	1	1.00	47	4	0500–0100	
33			ABOMEY	BEN	02E00 07N14	A10	1	1.00	47	4	0500–2400	
34			NOAKHALI	BGD	91E04 22N50	A20	1	1.00	50	3	0000–1800	
35			BARANOVICHI	BLR	26E03 53N08	A20	1	1.00	120	4	0000–2400	
36		S	BREST	BLR	23E54 52N18	A16	1	1.00	120	4	0000–2400	
37			GOMEL	BLR	31E01 52N25	A20	1	1.00	120	4	0000–2400	
38			KLIMOVICHI	BLR	32E00 53N36	A20	1	1.00	120	4	0000–2400	
39		S	MIADEL	BLR	26E54 54N53	A18	1	1.00	120	4	0000–2400	
40		S	MOGHILEV	BLR	30E17 53N55	A18	1	1.00	120	4	0000–2400	
41		S	PINSK	BLR	26E10 52N10	A18	1	1.00	120	4	0000–2400	
42			SLONIM	BLR	25E20 53N03	A20	1	1.00	120	4	0000–2400	
43			MAUN	BOT	23E26 19S58	A20	1	0.79	40	4	0300–2100	
44			ORAPA	BOT	25E26 21S15	A20	1	0.79	40	4	0300–2100	
45		S	ACHTOPOL	BUL	27E54 42N06	A18	1	1.00	30	5	0000–2400	
46		S	KAVARNA	BUL	28E21 43N25	A18	1	1.00	30	5	0000–2400	
47		S	MADAN	BUL	24E57 41N33	A18	1	1.00	30	5	0000–2400	
48		S	TOUTRAKAN	BUL	26E36 44N01	A18	1	1.00	30	5	0000–2400	
49			BAKALA	CAF	23E41 05N25	A 9	1	1.00	20	5	0400–2300	
50			BRIA	CAF	21E25 06N00	A 9	1	1.00	20	5	0400–2300	
51			DEKOA	CAF	19E05 06N19	A 9	1	1.00	20	5	0400–2300	
52			NOLA	CAF	16E03 03N31	A 9	1	1.00	20	3	0400–2300	
53			OBO	CAF	26E29 05N24	A 9	1	1.00	20	5	0400–2300	
54			ANQING	CHN	117E00 30N30	A 6	1	1.00	60	4	2000–1800	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1602	BAODING	CHN	115E33 38N51	A 6	1	1.00	50	4	2000–1800	
2	(120)	FUZHOU 1	CHN	119E24 26N06	A 6	1	1.00	70	4	2000–1800	
3		GUANGZHOU	CHN	113E14 23N11	A 6	0.5	0.50	70	4	2000–1800	
4		LONGJIANG	CHN	123E14 47N20	A 6	1	1.00	70	4	2000–1800	
5		NANJING	CHN	118E54 32N06	A 6	0.5	0.50	70	3	2000–1800	
6		NANTONG SHI	CHN	120E40 32N05	A 6	0.5	0.50	70	3	2000–1800	
7		QINGDAO	CHN	120E20 36N03	A 6	1	1.00	90	4	2000–1800	
8		QUANZHOU 1	CHN	118E33 24N53	A 6	0.5	0.50	60	4	2000–1800	
9		SHANGHAI	CHN	121E29 31N15	A 6	0.5	0.50	70	3	2000–1800	
10		SHANTOU	CHN	116E36 23N30	A 6	0.5	0.50	120	4	2000–1800	
11		SHIJIAZHUANG	CHN	114E40 37N50	A 6	0.5	0.50	50	4	2000–1800	
12		WENZHOU	CHN	120E36 28N06	A 6	0.5	0.50	120	4	2000–1800	
13		WUXI SHI	CHN	120E26 31N33	A 6	0.5	0.50	70	3	2000–1800	
14		BATTICALOA	CLN	81E40 07N45	A20	1	1.00	50	5	0000–1800	
15		CHILAW	CLN	79E48 07N30	A20	1	1.00	50	5	0000–1800	
16		COLOMBO	CLN	79E50 06N55	A20	1	1.00	50	5	0000–1800	
17		MATARA	CLN	80E27 06N00	A20	1	1.00	50	5	0000–1800	
18		AKONOLINGA	CME	12E36 03N51	A 9	1			5	0500–2300	
19		DSCHANG	CME	09E54 05N31	A 9	1			4	0500–2300	
20		LOLODORF	CME	10E42 03N12	A 9	1			5	0500–2300	
21		POLI	CME	13E15 07N24	A 9	1			4	0500–2300	
22		TIGNERE	CME	12E36 07N24	A 9	1			4	0500–2300	
23		WUM	CME	10E05 06N23	A 9	1			4	0500–2300	
24		YABASSI	CME	09E52 04N27	A 9	1			5	0500–2300	
25		YAGOUA	CME	15E00 10N12	A 9	1			4	0500–2300	
26		GRANADILLA	CNR	16W35 28N10	A20	1	0.63	30	5	0000–2400	
27		ICOD	CNR	16W45 28N20	A20	1	0.63	30	5	0000–2400	
28		PT ROSARIO	CNR	13W50 28N30	A20	1	0.63	40	5	0000–2400	
29		VALVERDE	CNR	17W55 27N45	A20	1	0.63	40	5	0000–2400	
30		INONI	COG	15E39 03S04	A20	1	0.50			0000–2400	
31		SEMBE	COG	14E36 01N39	A20	1	0.50			0000–2400	
32		PRAIA	CPV	23W30 14N55	A18	1	1.00	40	6	0000–2400	
33		DABAKALA	CTI	04W07 08N08	A 9	1			7	0600–2400	
34		MANKONO	CTI	06W11 08N03	A 9	1	1.00	47	7	0600–2400	
35		TOULEPLEU	CTI	08W24 06N32	A 9	1			7	0600–2400	
36		ZUENOULA	CTI	06W03 07N26	A 9	1	1.00	47	7	0600–2400	
37		NICOSIA	CYP	33E23 35N09	A 9	1	1.00	50	5	0000–2400	
38		PAPHOS	CYP	32E22 34N52	A 9	1	1.00	50	5	0000–2400	
39		ANGERMUENDE	DDR	13E00 53N01	D 9	1		20	3	0000–2400	
40		ANKLAM	DDR	13E42 53N51	D 9	1		20	4	0000–2400	
41		BAUTZEN	DDR	14E25 51N12	D 9	1		20	4	0000–2400	
42		DEMMIN	DDR	13E03 53N55	D 9	1		20	4	0000–2400	
43		EISENHUETTENST	DDR	14E37 52N09	D 9	1		20	4	0000–2400	
44		GUESTROW	DDR	12E12 53N47	D 9	1		20	4	0000–2400	
45		PLAUEN	DDR	12E09 50N36	D 9	1	1.00	20	4	0000–2400	
46		POTSDAM	DDR	12E58 52N24	D 9	1	1.00	20	4	0000–2400	
47		RIBNITZ DAMMG	DDR	12E27 54N15	D 9	1		20	3	0000–2400	
48		ROEBEL	DDR	12E36 53N22	D 9	1		20	4	0000–2400	
49		SANGERHAUSEN	DDR	11E18 51N28	D 9	1		20	4	0000–2400	
50		SEELOW	DDR	14E22 52N32	D 9	1	1.00	20	3	0000–2400	
51		WORBIS KEULA	DDR	10E22 51N26	D 9	1		20	4	0000–2400	
52		AYAMONTE	E	07W25 37N15	D20	0.3	0.19	30	4	0000–2400	
53		BENAVENTE	E	05W40 42N00	D20	0.3	0.19	30	4	0000–2400	
54		CD REAL	E	03W55 39N00	D20	1	0.63	30	5	0000–2400	

1	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1602	CD RODRIGO	E	06W30 40N35	D20	0.3	0.19	30	4	0000–2400	
2	(120)	GUADIX	E	03W10 37N20	D20	0.3	0.19	30	5	0000–2400	
3		HELLIN	E	01W40 38N30	D20	0.3	0.19	30	4	0000–2400	
4		LERIDA	E	00E40 41N35	D20	1	0.63	30	5	0000–2400	
5		LOJA	E	04W10 37N10	D20	0.3	0.19	30	4	0000–2400	
6		LUARCA	E	06W30 43N30	D20	0.3	0.19	30	5	0000–2400	
7		MIRANDA EBRO	E	02W55 42N40	D20	0.3	0.19	30	4	0000–2400	
8		OLOT	E	02E30 42N10	D20	0.3	0.19	30	5	0000–2400	
9		ORENSE	E	07W50 42N20	D20	1	0.63	30	5	0000–2400	
10		PALMA MALLORCA	E	02E40 39N35	D20	1	0.63	30	5	0000–2400	
11		PAMPLONA	E	01W40 42N50	D20	1	0.63	30	5	0000–2400	
12		SANTANDER	E	03W50 43N30	D20	1	0.63	30	5	0000–2400	
13		SANTIAGO COMP	E	08W30 42N50	D20	1	0.63	30	5	0000–2400	
14		SORIA	E	02W30 41N45	D20	0.5	0.32	30	5	0000–2400	
15		TERUEL	E	01W10 40N20	D20	0.5	0.32	30	5	0000–2400	
16		VALENCIA ALCAN	E	07W15 39N25	D20	0.3	0.19	30	5	0000–2400	
17		VICH	E	02E15 41N55	D20	0.3	0.19	30	5	0000–2400	
18		VILLABLINO	E	06W20 42N55	D20	0.3	0.19	30	5	0000–2400	
19		VILLARROBLEDO	E	02W35 39N15	D20	0.3	0.19	30	4	0000–2400	
20		VINAROZ	E	00E25 40N30	D20	0.3	0.19	30	4	0000–2400	
21		ALEXANDRIA	EGY	29E52 31N11	A20	1	1.00	47	4	0000–2400	
22		BAWITI	EGY	28E50 28N22	A20	1	1.00	47	4	0000–2400	
23		EIN ZAITOUN	EGY	25E52 29N05	A20	1	1.00	47	4	0000–2400	
24		EL FAYUM	EGY	30E50 29N20	A20	1	1.00	47	4	0000–2400	
25		EL KHARGAH	EGY	30E33 25N30	A20	1	1.00	47	4	0000–2400	
26		GHARDAKA	EGY	33E45 27N35	A20	1	1.00	47	4	0000–2400	
27		QUENA	EGY	32E43 26N10	A20	1	1.00	47	4	0000–2400	
28		RAS BANAS	EGY	35E45 23N55	A20	1	1.00	47	4	0000–2400	
29		SUEZ	EGY	32E31 30N00	A20	1	1.00	47	4	0000–2400	
30		ASMARA	ETH	38E56 15N21	A 9	1	1.00	46	3	0000–2400	
31		HARRAR	ETH	42E08 09N18	A 9	1	1.00	46	3	0000–2400	
32		CAEN V	F	00W22 49N11	D 9	1	1.00	50	7	0000–2400	
33		NIMES	F	04E21 43N50	D 9	1	1.00	50	7	0000–2400	
34		RAKIRAKI	FJI	178E09 17S22	A20	1	0.63	30	5	1700–1200	
35		HAMEENLINNA	FNL	24E28 61N00	A20	1	1.00	50	5	0000–2400	
36		JYVASKYLA	FNL	25E43 62N15	A20	1	1.00	50	5	0000–2400	
37		KAJAANI	FNL	27E44 64N13	A20	1	1.00	50	6	0000–2400	
38		KASKINEN	FNL	21E15 62N22	A20	1	1.00	50	4	0000–2400	
39		KOUVOLA	FNL	26E40 60N53	A20	1	1.00	50	5	0000–2400	
40		KUOPIO	FNL	27E42 62N55	A20	1	1.00	50	5	0000–2400	
41		KUUSAMO	FNL	29E08 65N57	A20	1	1.00	50	7	0000–2400	
42		PIETARSAARI	FNL	22E42 63N41	A20	1	1.00	50	5	0000–2400	
43		PORVOO	FNL	25E41 60N23	A20	1	1.00	50	5	0000–2400	
44		SAVONLINNA	FNL	28E53 61N52	A20	1	1.00	50	5	0000–2400	
45		SEINAJOKI	FNL	22E49 62N47	A20	1	1.00	50	5	0000–2400	
46		TAMMISAARI	FNL	23E27 59N59	A20	1	1.00	50	5	0000–2400	
47		TAMPERE	FNL	23E49 61N29	A20	1	1.00	50	6	0000–2400	
48		TORNIO	FNL	24E11 65N51	A20	1	1.00	50	5	0000–2400	
49		TURKU	FNL	22E35 60N04	A20	1	1.00	50	4	0000–2400	
50		OYEM	GAB	11E36 01N40	A 9	1		20	4	0400–2400	
51		PT GENTIL	GAB	08E42 00S42	A 9	1		30	4	0400–2400	
52		ARGOS	GRC	22E43 37N39	A 9	1	0.79	50	5	0400–2400	
53		ATALANTI	GRC	23E15 38N30	A 9	1	0.79	50	5	0400–2400	
54		CHANIA	GRC	24E01 35N30	A 9	1	0.79	50	5	0400–2400	

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	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1602	IERAPETRA	GRC	25E53 35N02	A 9	1	0.79	50	5	0400—2400	
2	(120)	KALAMAI	GRC	22E07 37N02	A 9	1	0.79	50	4	0400—2400	
3		KAVALLA	GRC	24E25 40N56	A 9	1	0.79	50	4	0400—2400	
4		KOZANI	GRC	21E46 40N16	A 9	1	0.79	50	4	0400—2400	
5		LIMNOS	GRC	25E04 39N53	A 9	1	0.79	50	5	2300—2200	
6		MESSOLOGGION	GRC	21E33 38N22	A 9	1	0.79	50	3	0400—2400	
7		RODOS	GRC	28E05 36N20	A 9	1	0.79	50	5	0400—2400	
8		SAMOS	GRC	26E40 37N42	A 9	1	0.63	40	4	0000—2400	
9		SOUFLI	GRC	26E20 41N00	A 9	1	0.79	50	5	0400—2200	
10		BOFFA	GUI	14W02 10N12	A 9	1	1.00	50		0000—2400	
11		GAOUAL	GUI	13W18 11N45	A 9	1	1.00	47	4	0000—2400	
12		KOUBIA	GUI	11W55 11N30	A 9	1	1.00	50		0000—2400	
13		KOUROUSSA	GUI	09W50 10N40	A 9	1	1.00	50		0000—2400	
14		LOLA	GUI	08W29 07N52	A 9	1	1.00	47	4	0000—2400	
15		MACENTA	GUI	09W28 08N13	A 9	1	1.00	47	4	0000—2400	
16		PITA	GUI	12W15 11N05	A 9	1	1.00	50		0000—2400	
17		BALATONSZABADI	HNG	18E07 46N55	D18	1	1.00	60	4	0000—2400	
18		ESZTERGOM	HNG	18E43 47N48	D18	1	1.00	60	4	0000—2400	
19		KAPOSVAR	HNG	17E48 46N21	D18	1	1.00	60	4	0000—2400	
20		KOMADI	HNG	21E31 47N00	D18	1	1.00	60	4	0000—2400	
21		ZALAEGERSZEG	HNG	16E51 46N51	D18	1	1.00	60	4	0000—2400	
22		LEEUWARDEN	HOL	05E45 53N15	D 9	2	1.00	30	5	0000—2400	
23		BOGANDE	HVO	00W08 13N00	A20	1	1.00	47	4	0000—2400	
24		KONGOUSSI	HVO	01W35 11N20	A20	1	1.00	47	4	0000—2400	
25		MANGA	HVO	01W00 11N00	A20	1	1.00	47	4	0000—2400	
26		PAMA	HVO	00E30 13N10	A20	1	1.00	47	4	0000—2400	
27		SINDOU	HVO	05W04 10N35	A20	1	1.00	47	4	0000—2400	
28		SOLENZO	HVO	04W00 12N20	A20	1	1.00	47	4	0000—2400	
29		AGRIGENTO	I	13E36 37N18	D 9	1	1.00	50	5	0000—2400	
30		AQUILA	I	13E24 42N21	D 9	1	1.00	50	5	0000—2400	
31		ASCOLIPICENO	I	13E34 42N51	D 9	1	1.00	50	5	0000—2400	
32		BENEVENTO	I	14E47 41N08	D 9	1	1.00	50	5	0000—2400	
33		BIELLA	I	08E03 45N34	D 9	1	1.00	50	5	0000—2400	
34		BOLOGNA	I	11E21 44N30	D 9	1	1.00	50	5	0000—2400	
35		BRESCIA	I	10E14 45N33	D 9	1	1.00	50	5	0000—2400	
36		CITTA CASTELLO	I	12E16 43N27	D 9	1	1.00	50	5	0000—2400	
37		COMO	I	09E05 45N48	D 9	1	1.00	50	5	0000—2400	
38		GORIZIA	I	13E37 45N57	D 9	1	1.00	50	5	0000—2400	
39		IMPERIA	I	08E00 43N53	D 9	1	1.00	50	5	0000—2400	
40		LASPEZIA	I	09E49 44N06	D 9	1	1.00	50	5	0000—2400	
41		MATERA	I	16E37 40N39	D 9	1	1.00	50	5	0000—2400	
42		PORDENONE	I	12E40 45N59	D 9	1	1.00	50	5	0000—2400	
43		SALERNO	I	14E46 40N40	D 9	1	1.00	50	5	0000—2400	
44		SAVONA	I	08E29 44N19	D 9	1	1.00	50	5	0000—2400	
45		SIENA	I	11E20 43N19	D 9	1	1.00	50	5	0000—2400	
46		SIRACUSA	I	15E18 37N03	D 9	1	1.00	50	5	0000—2400	
47		SPOLETO	I	12E43 42N43	D 9	1	1.00	50	5	0000—2400	
48		SULMONA	I	13E57 42N04	D 9	1	1.00	50	5	0000—2400	
49		CHIKMAGALUR	IND	75E50 13N10	A20	1		100	3	0000—2400	
50		COCHIN	IND	76E17 09N58	A20	1		100	4	0000—2400	
51		DHARMSALA	IND	76E15 32N12	A20	1		100	4	0000—2400	
52		KRISHNAGAR	IND	88E25 23N15	A20	1		100	4	0000—2400	
53		MYSORE	IND	76E42 12N18	A20	1		100	3	0000—2400	
54		NAGAUR	IND	73E40 27N11	A20	1		100	4	0000—2400	

	1	2	3	4	5	6	7	8	9	10	11
	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
1	1602	NAGERKOIL	IND	77E30 08N06	A20	1		100	3	0000–2400	
2	(120)	NAGPUR	IND	79E03 21N06	A20	1		100	3	0000–2400	
3		NAHAN	IND	77E10 30N30	A20	1		100	4	0000–2400	
4		NAINITAL	IND	79E30 29N30	A20	1		100	3	0000–2400	
5		NALGONDA	IND	79E17 17N03	A20	1		100	3	0000–2400	
6		NANDED	IND	77E27 19N09	A20	1		100	3	0000–2400	
7		NARNAUL	IND	76E14 28N02	A20	1		100	4	0000–2400	
8		NARSIMHAPUR	IND	79E20 23N00	A20	1		100	3	0000–2400	
9		NASIK	IND	73E50 20N02	A20	1		100	4	0000–2400	
10		NELLORE	IND	80E00 14N30	A20	1		100	3	0000–2400	
11		NIZAMABAD	IND	78E06 18N50	A20	1		100	4	0000–2400	
12		NOWGONG	IND	92E50 26N30	A20	1		100	3	0000–2400	
13		ONGOLE	IND	80E06 15N27	A20	1		100	3	0000–2400	
14		OOTACAMUND	IND	76E47 11N24	A20	1		100	3	0000–2400	
15		OSMANABAD	IND	76E02 18N10	A20	1		100	3	0000–2400	
16		PALANPUR	IND	72E28 24N12	A20	1		100	3	0000–2400	
17		PALEL	IND	94E01 24N30	A20	1		100	4	0000–2400	
18		PALI	IND	73E25 25N26	A20	1		100	4	0000–2400	
19		PANAJIGOA	IND	73E51 15N28	A20	1		100	4	0000–2400	
20		PANNA	IND	80E10 24N45	A20	1		100	4	0000–2400	
21		PARBHANI	IND	76E50 19N08	A20	1		100	3	0000–2400	
22		PATIALA	IND	76E30 30N25	A20	1		100	4	0000–2400	
23		PATNA	IND	85E13 25N37	A20	1		100	3	0000–2400	
24		PAURI	IND	78E50 30N15	A20	1		100	4	0000–2400	
25		PHULBANI	IND	84E15 20N28	A20	1		100	3	0000–2400	
26		PILIBHIT	IND	79E51 28N38	A20	1		100	4	0000–2400	
27		PITHORAGARH	IND	80E20 29N40	A20	1		100	4	0000–2400	
28		PONDICHERRY	IND	79E54 12N00	A20	1		100	3	0000–2400	
29		POONA	IND	73E55 18N31	A20	1		100	4	0000–2400	
30		PT BLAIR	IND	92E43 11N41	A20	1		100	4	0000–2400	
31		PT CORNWALLIS	IND	93E10 13N20	A20	1		100	4	0000–2400	
32		PUNCH	IND	74E10 33N40	A20	1		100	4	0000–2400	
33		PURNEA	IND	87E20 25N45	A20	1		100	3	0000–2400	
34		PURULIA	IND	86E25 23N15	A20	1		100	4	0000–2400	
35		QUILON	IND	76E30 08N50	A20	1		100	4	0000–2400	
36		RAEBARELI	IND	81E16 26N14	A20	1		100	3	0000–2400	
37		RAICHUR	IND	77E30 16N10	A20	1		100	3	0000–2400	
38		RAIGARH	IND	83E30 21N50	A20	1		100	4	0000–2400	
39		RAIPUR	IND	81E41 21N15	A20	1		100	3	0000–2400	
40		RAJAURI	IND	74E30 33N10	A20	1		100	4	0000–2400	
41		RAJGARH	IND	76E30 24N00	A20	1		100	3	0000–2400	
42		RAJKOT	IND	70E41 22N22	A20	1		100	3	0000–2400	
43		RAMANATHAPURAM	IND	78E52 09N22	A20	1		100	3	0000–2400	
44		RAMPUR	IND	79E04 28N48	A20	1		100	3	0000–2400	
45		RANCHI	IND	85E23 23N23	A20	1		100	3	0000–2400	
46		RATLAM	IND	75E00 23N25	A20	1		100	3	0000–2400	
47		RATNAGIRI	IND	73E22 17N00	A20	1		100	4	0000–2400	
48		REWA	IND	81E25 24N31	A20	1		100	4	0000–2400	
49		ROHTAK	IND	76E27 28N56	A20	1		100	3	0000–2400	
50		ROPAR	IND	76E35 30N55	A20	1		100	4	0000–2400	
51		SAGAR	IND	79E30 23N30	A20	1		100	4	0000–2400	
52		SAHARANPUR	IND	77E30 29N55	A20	1		100	3	0000–2400	
53		SAHARSA	IND	86E40 25N50	A20	1		100	3	0000–2400	
54		SALEM	IND	78E12 11N39	A20	1		100	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1602	SAMBALPUR	IND	84E01 21N28	A20	1		100	3	0000–2400	
2	(120)	SANGLI	IND	74E36 16N53	A20	1		100	3	0000–2400	
3		SANGRUR	IND	75E45 30N25	A20	1		100	3	0000–2400	
4		SATARA	IND	74E02 17N42	A20	1		100	3	0000–2400	
5		SATNA	IND	80E50 24N50	A20	1		100	4	0000–2400	
6		SAWAI MADHOPUR	IND	76E30 26N00	A20	1		100	3	0000–2400	
7		SEONI	IND	79E30 22N05	A20	1		100	4	0000–2400	
8		SHAHDOL	IND	81E20 23N15	A20	1		100	4	0000–2400	
9		SHAHJAHANPUR	IND	79E57 27N54	A20	1		100	3	0000–2400	
10		SHAJAPUR	IND	76E10 23N30	A20	1		100	3	0000–2400	
11		SHILLONG	IND	91E56 25N34	A20	1		100	3	0000–2400	
12		SHIMOGA	IND	75E30 13N55	A20	1		100	3	0000–2400	
13		SHIVPURI	IND	77E30 25N30	A20	1		100	3	0000–2400	
14		SHOLAPUR	IND	75E56 17N40	A20	1		100	4	0000–2400	
15		SIBSAGAR	IND	94E50 26N55	A20	1		100	3	0000–2400	
16		SIDHI	IND	81E50 24N30	A20	1		100	4	0000–2400	
17		SIKAR	IND	75E15 27N36	A20	1		100	4	0000–2400	
18		SIMLA	IND	77E12 31N10	A20	1		100	4	0000–2400	
19		SIROHI	IND	72E48 24N42	A20	1		100	4	0000–2400	
20		SITAPUR	IND	80E43 27N32	A20	1		100	3	0000–2400	
21		SRIKAKULAM	IND	83E55 18N15	A20	1		100	4	0000–2400	
22		SRINAGAR	IND	74E49 34N04	A20	1		100	3	0000–2400	
23		SULTANPUR	IND	82E07 26N16	A20	1		100	3	0000–2400	
24		SUNDERGARH	IND	84E03 22N07	A20	1		100	4	0000–2400	
25		SURAT	IND	72E52 21N12	A20	1		100	3	0000–2400	
26		SURENDRANAGAR	IND	71E40 22N45	A20	1		100	3	0000–2400	
27		SURI	IND	87E30 23N50	A20	1		100	4	0000–2400	
28		TAMENGLONG	IND	93E30 25N00	A20	1		100	4	0000–2400	
29		TEZPUR	IND	92E42 26N48	A20	1		100	3	0000–2400	
30		TEZU	IND	96E15 27N50	A20	1		100	4	0000–2400	
31		THANA	IND	72E50 19N15	A20	1		100	3	0000–2400	
32		THANJAVUR	IND	79E10 10N47	A20	1		100	3	0000–2400	
33		TIKAMGARH	IND	78E40 24N40	A20	1		100	3	0000–2400	
34		TINNEVELLY	IND	77E44 08N44	A20	1		100	3	0000–2400	
35		TIRUCHIRAPALLI	IND	78E46 10N50	A20	1		100	3	0000–2400	
36		TONK	IND	75E50 26N08	A20	1		100	4	0000–2400	
37		TRICHUR	IND	76E15 10N35	A20	1		100	4	0000–2400	
38		TRIVANDRUM	IND	76E59 08N29	A20	1		100	4	0000–2400	
39		TUENSANG	IND	94E48 26N14	A20	1		100	4	0000–2400	
40		TUMKUR	IND	77E00 13N30	A20	1		100	3	0000–2400	
41		TURA	IND	90E12 25N36	A20	1		100	3	0000–2400	
42		UDAIPUR	IND	73E47 24N30	A20	1		100	4	0000–2400	
43		UDHAMPUR	IND	75E00 32N50	A20	1		100	3	0000–2400	
44		UJJAIN	IND	75E45 23N09	A20	1		100	4	0000–2400	
45		UTTARKASHI	IND	78E30 30N50	A20	1		100	4	0000–2400	
46		VARANASHI	IND	83E00 25N20	A20	1		100	3	0000–2400	
47		VELLORE	IND	79E11 12N55	A20	1		100	4	0000–2400	
48		VIZAGAPATAM	IND	83E20 17N42	A20	1		100	4	0000–2400	
49		WARANGAL	IND	79E35 18N02	A20	1		100	3	0000–2400	
50		WARDHA	IND	78E39 20N45	A20	1		100	3	0000–2400	
51		YANAM	IND	82E20 16N40	A20	1		100	4	0000–2400	
52		YEOTMAL	IND	78E11 20N23	A20	1		100	4	0000–2400	
53		ZIRO	IND	93E50 27N34	A20	1		100	4	0000–2400	
54		AMBON	INS	128E10 03S41	A18	0.5	0.50	25	4	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11
1	1602	BANDA ATJEH	INS	95E20 05N30	A18	0.5	0.50	25	4	0000–2400	
2	(120)	BANDJARMASIN	INS	114E33 03S22	A18	0.5	0.50	25	4	0000–2400	
3		BANDUNG	INS	107E36 06S55	A18	0.5	0.50	25	4	0000–2400	
4		BANGIL	INS	112E46 07S36	A18	0.5	0.50	25	4	0000–2400	
5		BANJUWANGI	INS	114E23 08S13	A18	0.5	0.50	75	3	0000–2400	
6		BENGKULU	INS	102E20 03S46	A18	0.5	0.50	25	4	0000–2400	
7		BIAK	INS	136E04 01S11	A18	0.5	0.50	25	4	0000–2400	
8		BOGOR SEMPLAK	INS	106E47 06S35	A18	0.5	0.50	75	3	0000–2400	
9		BOJONEGORO	INS	111E03 07S09	A18	0.5	0.50	25	4	0000–2400	
10		BONDOWOSO	INS	113E49 07S54	A18	0.5	0.50	25	4	0000–2400	
11		BUKITTINGGI	INS	100E32 00S18	A18	0.5	0.50	25	4	0000–2400	
12		CIANJUR	INS	107E18 06S49	A18	0.5	0.50	25	4	0000–2400	
13		CIKAMPEK	INS	107E28 06S25	A18	0.5	0.50	75	3	0000–2400	
14		DENPASAR	INS	115E13 08S39	A18	0.5	0.50	75	3	0000–2400	
15		DJAKARTA	INS	106E50 06S10	A18	0.5	0.50	25	4	0000–2400	
16		DJAMBI	INS	103E39 01S36	A18	0.5	0.50	20	4	0000–2400	
17		DJEMBER	INS	113E42 08S10	A18	0.5	0.50	25	4	0000–2400	
18		FAKFAK	INS	132E17 02S55	A18	0.5	0.50	25	4	0000–2400	
19		GARUT	INS	107E53 06S42	A18	0.5	0.50	25	4	0000–2400	
20		GRESIK	INS	112E39 07S09	A18	0.5	0.50	25	4	0000–2400	
21		KALIUNGU	INS	110E14 06S57	A18	0.5	0.50	25	4	0000–2400	
22		KEDIRI	INS	112E02 07S53	A18	0.5	0.50	75	3	0000–2400	
23		KENDAL	INS	110E12 06S55	A18	0.5	0.50	25	4	0000–2400	
24		KENDARI	INS	122E36 03S57	A18	0.5	0.50	25	4	0000–2400	
25		KLATEN	INS	110E36 07S42	A18	0.5	0.50	25	4	0000–2400	
26		KLUNGKUNG	INS	115E24 08S32	A18	0.5	0.50	25	4	0000–2400	
27		KRAWANG	INS	107E17 06S18	A18	0.5	0.50	75	3	0000–2400	
28		MADIUN	INS	111E31 07S37	A18	0.5	0.50	25	4	0000–2400	
29		MAGELANG	INS	110E12 07S30	A18	0.5	0.50	25	4	0000–2400	
30		MAJALENGKA	INS	108E13 06S50	A18	0.5	0.50	25	4	0000–2400	
31		MALANG	INS	112E37 07S59	A18	0.5	0.50	25	4	0000–2400	
32		MENADO	INS	124E55 01N32	A18	0.5	0.50	25	4	0000–2400	
33		PADANG	INS	100E23 00S57	A18	0.5	0.50	75	3	0000–2400	
34		PAKANBARU	INS	101E26 00N32	A18	0.5	0.50	75	3	0000–2400	
35		PALEMBANG	INS	104E46 03S00	A18	0.5	0.50	75	3	0000–2400	
36		PALENGKARAJA	INS	113E11 02S02	A18	0.5	0.50	25	4	0000–2400	
37		PALU	INS	119E53 00S54	A18	0.5	0.50	25	4	0000–2400	
38		PANDJANG	INS	105E22 05S33	A18	0.5	0.50	25	4	0000–2400	
39		PASURUAN	INS	112E54 07S38	A18	0.5	0.50	75	3	0000–2400	
40		PATI	INS	111E02 06S45	A18	0.5	0.50	25	4	0000–2400	
41		PAYAHKUMBUH	INS	100E38 00S13	A18	0.5	0.50	25	4	0000–2400	
42		PEKALONGAN	INS	109E40 06S53	A18	0.5	0.50	25	4	0000–2400	
43		PONOROGO	INS	111E28 07S52	A18	0.5	0.50	75	3	0000–2400	
44		PONTIANAK	INS	109E20 00S05	A18	0.5	0.50	25	4	0000–2400	
45		PROBOLINGGO	INS	113E13 07S45	A18	0.5	0.50	25	4	0000–2400	
46		PURWOKERTO	INS	109E15 07S26	A18	0.5	0.50	25	4	0000–2400	
47		PURWOREJO	INS	110E30 07S43	A18	0.5	0.50	75	3	0000–2400	
48		RANGKASBITUNG	INS	106E15 06S22	A18	0.5	0.50	25	4	0000–2400	
49		SAMARINDA	INS	117E09 00S30	A18	0.5	0.50	25	4	0000–2400	
50		SEMARANG	INS	110E25 06S58	A18	0.5	0.50	75	3	0000–2400	
51		SENKANG	INS	119E39 05S02	A18	0.5	0.50	25	4	0000–2400	
52		SERANG	INS	106E09 06S07	A18	0.5	0.50	25	4	0000–2400	
53		SIBOLGA	INS	98E48 01N42	A18	0.5	0.50	25	4	0000–2400	
54		SIDOARJO	INS	112E43 07S28	A18	0.5	0.50	25	4	0000–2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11

	1		2	3	4	5	6	7	8	9	10	11
1	1602		SINGARADJA	INS	115E05 08S06	A18	0.5	0.50	25	4	0000–2400	
2	(120)		SOLOK SUMATRA	INS	100E39 00S48	A18	0.5	0.50	75	3	0000–2400	
3			SORONG	INS	131E17 00S50	A18	0.5	0.50	25	4	0000–2400	
4			SUBANG	INS	107E45 06S34	A18	0.5	0.50	25	4	0000–2400	
5			SUKABUMI	INS	106E55 06S50	A18	0.5	0.50	25	4	0000–2400	
6			SUMENEP	INS	113E51 07S00	A18	0.5	0.50	25	4	0000–2400	
7			SURABAJA	INS	112E45 07S15	A18	0.5	0.50	25	4	0000–2400	
8			SURAKARTA	INS	110E49 07S34	A18	0.5	0.50	75	3	0000–2400	
9			TANDJUNGKARANG	INS	105E15 05S24	A18	0.5	0.50	25	4	0000–2400	
10			TANJUNGMORAWA	INS	98E50 03N30	A18	0.5	0.50	75	3	0000–2400	
11			TASIKMALAJA	INS	108E13 07S19	A18	0.5	0.50	75	3	0000–2400	
12			TEGAL	INS	109E08 06S52	A18	0.5	0.50	25	4	0000–2400	
13			TEMANGGUNG	INS	110E10 07S19	A18	0.5	0.50	25	4	0000–2400	
14			TERNATE	INS	127E23 00N48	A18	0.5	0.50	25	4	0000–2400	
15			TJIAMIS	INS	108E20 07S19	A18	0.5	0.50	25	4	0000–2400	
16			TJIREBON	INS	108E34 06S42	A18	0.5	0.50	25	4	0000–2400	
17			TOMOHON	INS	124E50 01N19	A18	0.5	0.50	25	4	0000–2400	
18			UJUNGPANDANG	INS	119E25 05S09	A18	0.5	0.50	25	4	0000–2400	
19			WONOSOBO	INS	109E59 07S21	A18	0.5	0.50	25	4	0000–2400	
20			DROGHEDA	IRL	06W18 53N45	A20	1	1.00	50	4	0000–2400	
21			WICKLOW	IRL	06W00 52N58	A20	1	1.00	50	5	0000–2400	
22			ARAK	IRN	49E35 34N05	A20	1	1.00	46	5	0200–2200	
23			ARDEBIL	IRN	48E18 38N15	A20	1	1.00	46	4	0200–2200	
24			ARDESTAN	IRN	52E25 33N22	A20	1	1.00	46	4	0200–2200	
25			BEHBEHAN	IRN	50E18 30N34	A20	1	1.00	46	5	0200–2200	
26			DAMGHAN	IRN	54E22 36N09	A20	1	1.00	46	4	0200–2200	
27			DARAB	IRN	54E33 28N45	A20	1	1.00	46	5	0200–2200	
28			GASSRE SHIRIN	IRN	45E40 34N25	A20	1	1.00	46	4	0200–2200	
29			GAZVIN	IRN	50E00 34N25	A20	1	1.00	46	5	0200–2200	
30			JASK	IRN	57E45 25N40	A20	0.3	0.30	46	4	0200–2200	
31			KHASH	IRN	61E13 28N13	A20	1			4	0100–2200	
32			KHOI	IRN	45E02 38N32	A20	1	1.00	46	4	0200–2200	
33			MAHABAD	IRN	45E43 36N46	A20	1	1.00	46	4	0200–2200	
34			NEISHABOOR	IRN	58E49 36N13	A20	1	1.00	46	5	0200–2200	
35			PAVEH	IRN	46E15 35N02	A20	1	1.00	46	5	0200–2200	
36			SHAHR KORD	IRN	50E51 32N19	A20	1	1.00	45	3	0200–2100	
37			SIRJAN	IRN	55E41 29N27	A20	1		66	3	0200–2100	
38			TABAS	IRN	56E54 33N37	A20	1	1.00	46	4	0200–2200	
39			TAYYEBAD	IRN	60E45 34N44	A20	1	1.00	46	3	0200–2200	
40			ZANJAN	IRN	48E29 36N41	A20	1			3	0100–2200	
41			KARMIEL	ISR	35E14 32N55	A 9	0.2	0.20	40	4	0000–2400	
42			QALQILIYA	ISR	34E50 32N20	A 9	1	1.00	40	4	0000–2400	
43			SEDE BOQER	ISR	34E50 30N45	A 9	1	1.00	40	4	0000–2400	
44			ASAHIKAWA	J	142E25 43N46	A15	1	1.00	71	5	0000–2400	
45			EMBETSU	J	141E48 44N43	A15	1	1.00	71	5	0000–2400	
46			FUKUSHIMA	J	140E29 37N46	A15	1	1.00	51	5	0000–2400	
47			HAGIWARA	J	137E14 35N49	A15	0.1	0.13	71	5	0000–2400	
48			HITOYOSHI	J	130E47 32N13	A15	1	1.00	71	5	0000–2400	
49			IWAIZUMI	J	141E48 39N51	A15	0.1	0.13	71	5	0000–2400	
50		S	KAMAISHI	J	141E53 39N16	A15	0.1	0.13	67	5	0000–2400	
51			KAWAMOTO	J	132E29 34N58	A15	0.1	0.13	71	5	0000–2400	
52			KISOFUKUSHIMA	J	137E42 35N51	A15	0.1	0.13	47	5	0000–2400	
53			KITAKYUSHU	J	130E52 33N53	A15	1	1.00	51	5	0000–2400	
54			KOFU	J	138E32 35N39	A15	1	1.00	71	5	0000–2400	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1		2	3	4	5	6	7	8	9	10	11
1	1602		KOZA	J	135E50 33N31	A15	0.1	0.13	71	5	0000–2400	
2	(120)		KUMANO	J	136E06 33N53	A15	0.1	0.13	71	5	0000–2400	
3			MAIZURU	J	135E24 35N28	A15	0.1	0.13	67	5	0000–2400	
4			MIYAKO OKINAWA	J	125E17 24N49	A15	0.1	0.10	71	5	0000–2400	
5			NASE	J	129E30 28N24	A15	1	1.00	71	5	0000–2400	
6			NICHINAN	J	131E23 31N36	A15	0.1	0.13	67	5	0000–2400	
7			NOBEOKA	J	131E41 32N34	A15	1	1.00	71	5	0000–2400	
8			ONOMICHI	J	133E11 34N23	A15	1	1.00	71	5	0000–2400	
9			TAJIMA	J	139E46 37N12	A15	0.1	0.13	71	5	0000–2400	
10			TANABE	J	135E24 33N45	A15	0.1	0.13	67	5	0000–2400	
11			TOJO	J	133E16 34N54	A15	0.1	0.13	71	5	0000–2400	
12			UEDA	J	138E16 36N24	A15	0.1	0.13	67	5	0000–2400	
13			URAKAWA	J	142E47 42N10	A15	0.1	0.13	71	5	0000–2400	
14			UWAJIMA	J	132E34 33N13	A15	1	1.00	71	5	0000–2400	
15		S	YAMADA	J	142E00 39N26	A15	0.1	0.13	67	5	0000–2400	
16			YOKOTE	J	140E34 39N18	A15	0.1	0.13	67	5	0000–2400	
17			LODWAR	KEN	35E35 03N05	A 9	1		100	4	0200–2100	
18			MAGADI	KEN	36E10 01S10	A 9	1	1.00	50	4	0200–2100	
19			MOYALE	KEN	39E12 03N32	C 9	1	1.00	50	4	0200–2100	
20			NAROK	KEN	35E57 01S07	A 9	1	1.00	50	4	0200–2100	
21			WAJIR	KEN	40E02 01N42	A 9	1		100	4	0200–2100	
22			BOO ON	KOR	127E42 36N28	A10	1	1.00	120	6	0000–2400	
23			DOGYE	KOR	129E03 37N13	A10	1	1.00	80	6	0000–2400	
24			SUNCHANG	KOR	127E09 35N22	A10	1	1.00	80	5	0000–2400	
25			CHOSAN	KRE	126E47 40N50	A20	1	1.00	30		2000–1800	
26			KUWAIT	KWT	48E20 29N34	A 9	1	1.00	50	8	0000–2400	
27			GRANDCES	LBR	08W45 05N10	A20	1	1.00	50	5	0500–2400	
28			EL FUGHA	LBY	16E05 27N50	A20	1	1.00	47	5	0400–2400	
29			EL WABRIA	LBY	18E05 27N20	A20	1	1.00	47	5	0400–2400	
30			EL WAHA	LBY	19E55 28N05	A20	1	1.00	47	5	0400–2400	
31			GERIAN	LBY	13E10 32N10	A20	1	1.00	47	5	0400–2400	
32			GHADAMES	LBY	09E30 30N08	A20	1	1.00	140	4	0400–2200	
33			KUFRA	LBY	23E18 24N11	A20	1	1.00	90	6	0400–2400	
34			OBARI	LBY	12E50 26N25	A20	1	1.00	47	5	0400–2400	
35			ZWARA	LBY	12E30 32N56	A20	1	1.00	47	5	0400–2400	
36			AMBOASARY	MDG	46E23 25S03	A 9	1	1.00	50	4	0300–2000	
37			AMBOSITRA	MDG	47E10 20S30	A 9	1	1.00	47	4	0300–2000	
38			AMPANIHY	MDG	44E35 24S41	A 9	1	1.00	89	4	0300–2000	
39			ANDAPA	MDG	49E41 14S42	A 9	1	1.00	150	4	0300–2000	
40			ANKAZOABO	MDG	44E30 22S10	A 9	1	1.00	128	4	0300–2000	
41			ANKAZOBE	MDG	47E05 18S20	A 9	1	1.00	47	4	0300–2000	
42			ANTSOHIHY	MDG	48E00 14S53	A 9	1	1.00	84	4	0300–2000	
43			BETROKA	MDG	46E06 23S16	A 9	1	1.00	116	4	0300–2000	
44			MAEVATANANA	MDG	46E49 16S58	A 9	1	1.00	157	4	0300–2000	
45			MAINTIRANO	MDG	44E02 18S03	A 9	1	1.00	96	4	0300–2000	
46			MAMPIKONY	MDG	47E37 16S05	A 9	1	1.00	46	4	0300–2000	
47			MANAKARA	MDG	48E02 22S08	A 9	1	1.00	47	4	0300–2000	
48			MANJA	MDG	44E20 21S26	A 9	1	1.00	122	4	0300–2000	
49			MAROANTSETRA	MDG	48E00 15S25	A 9	1	1.00	47	4	0300–2000	
50			MAROLAMBO	MDG	48E08 20S03	A 9	1	1.00	192	4	0300–2000	
51			MIANDRIVAZO	MDG	45E28 19S32	A 9	1	1.00	47	4	0300–2000	
52			MITSINJO	MDG	45E52 16S00	A 9	1	1.00	50	4	0300–2000	
53			MORAMANGA	MDG	48E14 18S58	A 9	1	1.00	47	4	0300–2000	
54			SAINTE MARIE	MDG	49E01 17S00	A 9	1	1.00	47	4	0300–2000	

	Assigned frequency (kHz) (Channel number)		Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2		3	4	5	6	7	8	9	10	11

	1	2		3	4	5	6	7	8	9	10	11
1	1602		SOAVINANDRIANA	MDG	46E45 19S10	A 9	1	1.00	47	4	0300–2000	
2	(120)		VATOMANDRY	MDG	49E00 19S20	A 9	1	1.00	47	4	0300–2000	
3			VOHEMAR	MDG	50E00 13S20	A 9	1	1.00	47	4	0300–2000	
4			VONDROZO	MDG	47E28 22S49	A 9	1	1.00	47	4	0300–2000	
5			BUKIT FRASER	MLA	101E45 03N45	A20	1	1.00	46	5	2200–1700	
6			CAMERON HLANDS	MLA	101E25 04N57	A20	1	1.00	46	5	2200–1700	
7			KAMPONG GAJAH	MLA	103E23 02N40	A20	1	1.00	46	5	2200–1700	
8			BOUGOUNI	MLI	07W29 11N25	A 9	1		48		0600–2400	
9			KENIEBA	MLI	11W14 12N50	A 9	1		48		0600–2400	
10			KOLOKANI	MLI	08W04 13N31	A 9	1		62		0600–2400	
11			MENAKA	MLI	02E26 15N52	A 9	1		48		0600–2400	
12			NIORO	MLI	09W35 15N13	A 9	1		64		0600–2400	
13			TOMBOCTOU	MLI	03W01 16N46	A 9	1	1.00	46	4	0600–2400	
14			BAIANHONGOR	MNG	100E40 46N10	A18	1	1.00	120	5	2200–1500	
15			BARUNURT	MNG	113E20 46N40	A18	1	1.00	120	4	2200–1500	
16			DALANTSZADAGAD	MNG	104E30 43N38	A18	1	1.00	120	4	2200–1500	
17			KOBDO	MNG	91E48 48N10	A18	1	1.00	120	5	2200–1500	
18			MANDAL GOBI	MNG	106E10 45N40	A18	1	1.00	120	4	2200–1500	
19			MUREN	MNG	100E10 49N30	A18	1	1.00	120	5	2200–1500	
20			SAINSHAND	MNG	110E05 44N50	A18	1	1.00	120	4	2200–1500	
21			SUHE BATOR	MNG	113E10 46N50	A18	1	1.00	120	4	2200–1500	
22			ULIASUTAI	MNG	96E50 47N40	A18	1	1.00	120	5	2200–1500	
23			FJNHALOURO	MOZ	34E20 23S00	A10	1	1.00	31	4	0400–2200	
24			MOCIMBOA PRAIA	MOZ	40E22 11S20	A10	1				0400–2200	
25			OLIVENCA	MOZ	35E12 11S37	A10	1	1.00	31	4	0400–2200	
26			AZILAL	MRC	06W33 31N54	A12	1	1.00	50	4	0600–2400	
27			KSARSOUK	MRC	04W24 31N55	A18	1	1.00	50	5	0600–2400	
28			TARFAYA	MRC	12W55 27N55	A18	1	1.00	50	5	0600–2400	
29			TETOUAN	MRC	05W23 35N36	A12	0.5	0.50	50	5	0600–2400	
30			MOUDJERIA	MTN	12W19 17N52	A 9	1	1.00	48	5	0700–2300	
31			AYOROU	NGR	00E55 14N43	A 9	1	1.00	47	4	0000–2400	
32			BILMA	NGR	13E00 18N40	A 9	0.1			4	0000–2400	
33			DAKORO	NGR	07E00 15N00	A 9	1			4	0000–2400	
34			DIFFA	NGR	12E37 15N19	A 9	1	1.00	47	4	0000–2400	
35			IN GALL	NGR	06E56 16N47	A 9	1	1.00	47	4	0000–2400	
36			MADAOUA	NGR	05E57 14N04	A 9	1	1.00	47	4	0000–2400	
37			MAGARIA	NGR	09E00 13N00	A 9	1			4	0000–2400	
38			OUALLAM	NGR	02E20 14N20	A 9	0.1			4	0000–2400	
39			KANO	NIG	08E33 12N03	C 9	1	1.00	75	4	0500–2300	
40			NSUKKA	NIG	07E22 06N52	C 9	1	1.00	73	4	0500–2200	
41			BAJURA	NPL	81E22 29N22	A20	1	0.50	60	5	2200–1900	
42			GORKHA	NPL	84E38 28N02	A20	1	0.50	60	5	2200–1900	
43			KAIGAON	NPL	82E48 29N02	A20	1	0.50	60	5	2200–1900	
44			RAMECHHAP	NPL	86E04 27N20	A20	1	0.50	60	5	2200–1900	
45			HARIHARI	NZL	170E33 43S08	A20	1	1.00	50	6	0000–2400	
46			BATTAL	PAK	73E20 33N30	A20	2	1.00	54	4	0000–1400	
47			BELA	PAK	66E30 25N50	A20	1	0.79	104	4	0000–2000	
48			JIWANI	PAK	61E46 25N01	A20	1	0.79	48	4	0000–2000	
49			KUCHLAK	PAK	66E57 30N20	A20	1	0.79	36	4	0000–1400	
50			SIALKOT	PAK	74E30 32N30	A20	1	0.79	89	4	0000–2000	
51			SUKKUR	PAK	68E55 27N50	A20	1	0.79	47	4	0000–2000	
52		S	BAYOMBONG	PHL	121E10 16N30	A 9	0.5	0.50	66	3	2100–1600	
53		S	BONTOC	PHL	121E00 17N05	A 9	0.5	0.50	66	3	2100–1600	
54		S	LUBUAGAN	PHL	121E11 17N20	A 9	0.5	0.50	66	3	2100–1600	

	1	2	3	4	5	6	7	8	9	10	11
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1	1602	OLONGAPO	PHL	120E42 14N24	A10	0.3	0.48	15	3	0100–2400	
2	(120)	CIESZYN	POL	18E38 49N46	A20	1	1.00	47	5	0000–2400	
3		DABROWA BIAL	POL	23E20 53N39	A20	1	1.00	47	5	0000–2400	
4		GORZOW WIELKOP	POL	15E15 52N45	A20	1	1.00	47	5	0000–2400	
5		GRAJEWO	POL	22E27 53N39	A20	1	1.00	47	5	0000–2400	
6		LEBORK	POL	17E43 54N34	A20	1	1.00	47	5	0000–2400	
7		LIDZBARK WARM	POL	20E36 54N08	A20	1	1.00	47	5	0000–2400	
8		MRAGOWO	POL	21E18 53N52	A20	1	1.00	47	5	0000–2400	
9		POLANIEC	POL	21E16 50N28	A20	1	1.00	47	5	0000–2400	
10		PORONIN	POL	19E59 49N22	A20	1	1.00	47	5	0000–2400	
11		RADOM	POL	21E10 51N25	A20	1	1.00	47	5	0000–2400	
12		SANOK	POL	22E13 49N34	A20	1	1.00	47	5	0000–2400	
13		SZCZEKOCINY	POL	19E48 50N38	A20	1	1.00	47	5	0000–2400	
14		ZLOCIENIEC	POL	16E00 53N33	A20	1	1.00	47	5	0000–2400	
15		CARAMULO	POR	08W09 40N34	A20	1	1.00	50	4	0000–2400	
16		DOHA	QAT	51E32 25N17	C 9	1	1.00	50	5	0000–2400	
17		ARAD	ROU	21E40 46N07	A20	1	1.00	50	5	0300–2300	
18		BIXAD	ROU	23E10 47N54	A20	1	1.00	50	5	0300–2300	
19		CALAFAT	ROU	22E55 43N53	A20	1	1.00	50	4	0300–2300	
20		CIMPULUNG MOLD	ROU	25E31 47N31	A20	1	1.00	50	5	0300–2300	
21		DARABANI	ROU	26E31 48N03	A20	1	1.00	50	4	0300–2300	
22		FOCSANI	ROU	27E18 45N38	A20	1	1.00	50	5	0300–2300	
23		HUNEDOARA	ROU	22E30 46N01	A20	1	1.00	50	6	0300–2300	
24		IASI 2	ROU	27E35 47N07	A20	1	1.00	50	5	0300–2300	
25		NASAUD	ROU	24E40 47N15	A20	1	1.00	50	5	0300–2300	
26		PIATRA NEAMT	ROU	26E19 46N51	A20	1	1.00	50	4	0300–2300	
27		RIMNICU VILCEA	ROU	24E30 45N10	A20	1	1.00	50	5	0300–2300	
28		SIGHISOARA	ROU	24E29 46N10	A20	1	1.00	50	6	0300–2300	
29		SLOBOZIA	ROU	27E25 44N40	A20	1	1.00	50	5	0300–2300	
30		TULCEA	ROU	28E45 45N12	A20	1	1.00	50	5	0300–2300	
31		TURNU MAGURELE	ROU	25E02 43N48	A20	1	1.00	50	3	0300–2300	
32		BOR	SDN	31E33 06N12	A20	1	1.00	46	3	0400–2400	
33		ELGENEINA	SDN	22E27 13N27	A20	1	1.00	46	3	0400–2400	
34		ELOBEID	SDN	30E14 13N11	A20	1	1.00	46	4	0400–2400	
35		HAIYA JUNCTION	SDN	36E23 18N20	A20	1	1.00	46	4	0400–2400	
36		HALFA ELGADIDA	SDN	35E39 15N20	A20	1	1.00	46	3	0400–2400	
37		KADUGLI	SDN	29E43 11N01	A20	1	1.00	46	3	0400–2400	
38		KHARTOUM	SDN	32E31 15N36	A20	1	1.00	46	3	0400–2400	
39		KOSTI	SDN	32E40 13N10	A20	1	1.00	46	2	0400–2400	
40		MEROWE	SDN	31E49 18N28	A20	1	1.00	46	3	0400–2400	
41		SHENDI	SDN	33E25 16N42	A20	1	1.00	46	4	0400–2400	
42		TAMBURA	SDN	27E28 05N36	A20	1	1.00	46	3	0400–2400	
43		BOL	TCD	14E43 13N28	A 9	1				0400–2300	
44		BRATISLAVA	TCH	17E08 48N09	C 9	1	1.00		5	0000–2400	
45		BRNO MESTO	TCH	16E37 49N12	C 9	1	1.00		5	0000–2400	
46		KOSICE MESTO	TCH	21E15 48N43	C 9	1	1.00		5	0000–2400	
47		KRNOV	TCH	17E41 50N05	A20	1	0.63	60	5	0000–2400	
48		MAR LAZNE	TCH	12E43 49N59	A20	1	0.63	60	5	0000–2400	
49		MOST	TCH	13E38 50N32	A20	1	0.63	60	5	0000–2400	
50		OSTRAVA MESTO	TCH	18E18 49N50	C 9	1	1.00		5	0000–2400	
51		PRAHA MESTO	TCH	14E24 50N06	C 9	1	1.00		5	0000–2400	
52		IFAKARA	TGK	36E50 08S10	A 9	1	1.00	45	4	0300–2100	
53		ITIGI	TGK	33E55 05S45	A 9	1	1.00	45	4	0300–2100	
54		MAFIA	TGK	39E45 07S48	A20	1	1.00	45	4	0300–2100	

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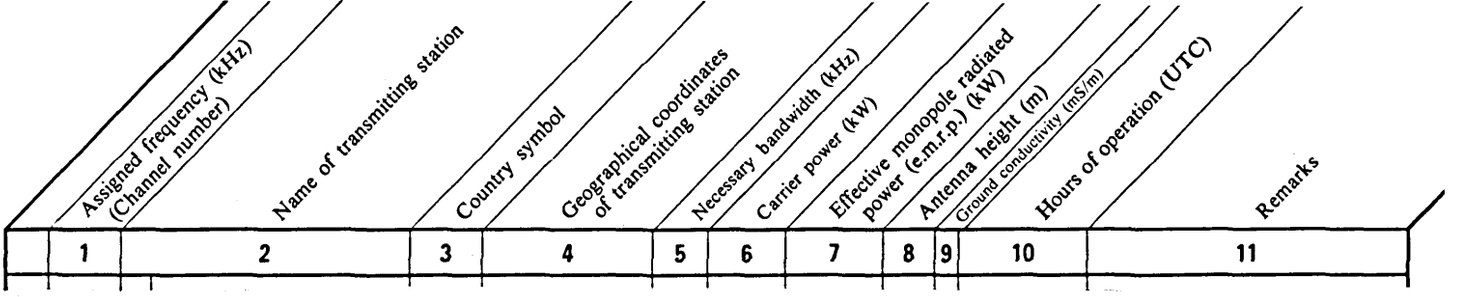
	1	2	3	4	5	6	7	8	9	10	11
1	1602	BADOU	TGO	00E47 07N26	A 9	1	1.00	46	4	0500–2300	
2	(120)	BURIRAM	THA	103E06 14N59	A20	1	1.00	60	3	0300–1500	
3		CHIANG MAI	THA	98E58 18N48	A20	1	1.00	47	5	2300–1700	
4		N SITHAMMARAT	THA	99E48 08N10	A20	1	1.00	47	3	2300–1700	
5		NARATHIWAT	THA	101E48 06N25	A20	1	1.00	47	3	2300–1700	
6		DJENDOUBA	TUN	08E10 36N50	D20	1	1.00	47	4	0000–2400	
7		DJERBA	TUN	10E45 33N43	D20	1	1.00	47	4	0000–2400	
8		KEF	TUN	08E45 36N09	D20	1	1.00	47	4	0000–2400	
9		SIDI BOUZID	TUN	09E00 35N10	D20	1	1.00	47	4	0000–2400	
10		ARTVIN	TUR	41E45 41N12	A20	1	1.00	43	4	0200–2300	
11		AYVALIK	TUR	26E43 39N18	A20	1	1.00	67	4	0200–2300	
12		BODRUM	TUR	27E26 37N04	A20	1	1.00	43	4	0200–2300	
13		KOYCEGIZ	TUR	28E41 36N58	A20	1	1.00	43	4	0200–2300	
14		USAK	TUR	29E25 38N41	A20	1	1.00	43	4	0200–2300	
15		MUBENDE	UGA	31E20 00N30	A 9	1	1.00	47	4	0300–2100	
16		DNEPROPETROVSK	UKR	35E44 48N48	A20	1	1.00	120	4	0000–2400	
17		FEODOSIA	UKR	35E20 45N02	A20	1	1.00	120	4	0000–2400	
18		IALTA	UKR	34E10 44N39	A20	1	1.00	120	4	0000–2400	
19		IZIUM	UKR	37E17 49N13	A20	1	1.00	120	4	0000–2400	
20		JITOMIR	UKR	28E37 50N15	A20	1	1.00	120	4	0000–2400	
21		KIEV	UKR	30E49 50N30	A20	1	1.00	120	4	0000–2400	
22		KOVEL	UKR	24E41 51N16	A20	1	1.00	120	4	0000–2400	
23		KRIVOI ROG	UKR	33E25 47N55	A20	1	1.00	120	4	0000–2400	
24		LVOV	UKR	24E00 49N50	A20	1	1.00	120	4	0000–2400	
25		NIKOLAEV	UKR	32E01 46N58	A20	1	1.00	120	4	0000–2400	
26		PODVOLOTCHISK	UKR	26E10 49N35	A20	1	1.00	120	4	0000–2400	
27		ROVNO	UKR	26E14 50N39	A20	1	1.00	120	4	0000–2400	
28		SIMFEROPOL	UKR	34E06 44N56	A20	1	1.00	120	4	0000–2400	
29		TCHERKASSY	UKR	32E02 49N27	A20	1	1.00	120	4	0000–2400	
30		UJGOROD	UKR	22E20 48N38	A20	1	1.00	120	4	0000–2400	
31		VOROCHILOVGRAD	UKR	39E15 48N32	A20	1	1.00	120	4	0000–2400	
32		AFANASIVKA	URS	57E50 56N43	A20	1	1.00	120	4	0000–2400	
33		ALDAN	URS	125E24 58N36	A20	1	1.00	120	4	0000–2400	
34		BAKU	URS	49E45 40N20	A20	1	1.00	120	4	0000–2400	
35		BELGOROD	URS	36E30 50N38	A20	1	1.00	120	4	0000–2400	
36		BEREGNIKI	URS	56E15 59N24	A20	1	1.00	120	4	0000–2400	
37		CHAULIAI	URS	23E15 55N56	A18	1	1.00	120	4	0000–2400	
38		CHELABINSK	URS	61E24 55N09	A20	1	1.00	120	4	0000–2400	
39		CHERLAK	URS	74E42 53N18	A20	1	1.00	120	4	0000–2400	
40		DAUGAVPILS	URS	26E30 35N54	A20	1	1.00	120	4	0000–2400	
41		DUDINKA	URS	86E07 69N37	A20	1	1.00	120	4	0000–2400	
42		ERBOGACHEN	URS	108E00 61N18	A20	1	1.00	120	4	0000–2400	
43		EREVAN	URS	44E30 40N11	A20	1	1.00	120	4	0000–2400	
44		FRUNZE	URS	74E37 42N54	A18	1	1.00	120	4	0000–2400	
45		GORNO ALTAISK	URS	85E52 51N57	A18	1	1.00	120	4	0000–2400	
46		IGARGA	URS	86E34 67N29	A20	1	1.00	120	4	0000–2400	
47		IMAN	URS	133E43 45N56	A18	1	1.00	120	4	0000–2400	
48		IRBIT	URS	63E02 57N43	A20	1	1.00	120	4	0000–2400	
49		IRKUTSK	URS	104E18 52N18	A20	1	1.00	120	4	0000–2400	
50		IUJNSAKHALINSK	URS	143E00 47N00	A18	1	1.00	120	2	0000–2400	
51		KAMISNIN	URS	45E20 50N06	A20	1	1.00	120	4	0000–2400	
52		KAMO	URS	45E00 40N15	A20	1	1.00	120	4	0000–2400	
53		KARAVAN	URS	72E08 40N18	A20	1	1.00	120	4	0000–2400	
54		KEM	URS	34E00 65N00	A20	1	1.00	120	4	0000–2400	



1	2	3	4	5	6	7	8	9	10	11
1602	KHANTY MANSIJS	URS	62E00 61N00	A20	1	1.00	120	4	0000–2400	
(120)	KIROV	URS	49E41 58N36	A20	1	1.00	120	4	0000–2400	
	KIRS	URS	52E50 67N00	A20	1	1.00	120	4	0000–2400	
	KLIUCHI	URS	160E10 56N19	A20	1	1.00	120	4	0000–2400	
	KOKHTLA IARVE	URS	27E10 59N20	A18	1	1.00	120	4	0000–2400	
	KOSTROMA	URS	41E00 57N50	A20	1	1.00	120	4	0000–2400	
	KULDIGA	URS	21E58 56N58	A18	1	1.00	120		0000–2400	
	KUZEMA	URS	34E12 65N22	A18	1	1.00	120	4	0000–2400	
	KYZYL	URS	94E28 51N43	A18	1	1.00	120	4	0000–2400	
	LENINABAD	URS	69E37 40N16	A18	1	1.00	120	4	0000–2400	
	MAIKOP	URS	39E50 45N00	A20	1	1.00	120	4	0000–2400	
	MEDVEJIEGORSK	URS	34E24 62N56	A18	1	1.00	120	4	0000–2400	
	NARIAN–MAR	URS	53E08 68N02	A20	1	1.00	120	4	0000–2400	
	NORILSK	URS	88E15 69N12	A20	1	1.00	120	4	0000–2400	
	OIMIAKON	URS	145E00 63N15	A20	1	1.00	120	4	0000–2400	
	PIARNU	URS	24E33 58N23	A18	1	1.00	120	4	0000–2400	
	PORONAISK	URS	143E05 49N11	A20	1	1.00	120	4	0000–2400	
	REZEKNE	URS	27E20 56N33	A18	1	1.00	120	4	0000–2400	
S	RIGA	URS	24E05 56N57	A16	1	1.00	120	4	0000–2400	
	SARANSK	URS	45E06 54N12	A20	1	1.00	120	4	0000–2400	
	SOTCHI	URS	39E23 43N35	A18	1	1.00	120	4	0000–2400	
	SPASSK–DALNI	URS	132E47 44N38	A20	1	1.00	120	4	0000–2400	
	SVOBODNYI	URS	128E00 51N30	A18	1	1.00	120	4	0000–2400	
	TACHKENT	URS	69E15 41N19	A18	1	1.00	120	4	0000–2400	
	TALLIN	URS	24E46 59N24	A18	1	1.00	120	4	0000–2400	
	TCESVANE	URS	26E20 56N48	A20	1	1.00	120	4	0000–2400	
	TCHARDJOU	URS	63E55 39N02	A18	1	1.00	120	4	0000–2400	
	TCHITA	URS	115E20 52N02	A18	1	1.00	120	4	0000–2400	
	TYRMA	URS	132E15 50N05	A20	1	1.00	120	4	0000–2400	
	TZAKIR	URS	103E36 50N17	A20	1	1.00	120	4	0000–2400	
	URGUM	URS	49E41 58N36	A20	1	1.00	120	4	0000–2400	
	VETLUGA	URS	45E44 57N51	A20	1	1.00	120	4	0000–2400	
	VORKUTA	URS	63E45 67N40	A20	1	1.00	120	4	0000–2400	
	WANKAREN	URS	176E00 67N20	A20	1	1.00	120	4	0000–2400	
	YRINSK	URS	48E40 62N05	A20	1	1.00	120	4	0000–2400	
	ALBAYDA	YEM	45E30 14N00	A 9	1	1.00	47	3	0300–2200	
	BABUSNICA	YUG	22E26 43N05	D20	1	0.50	40	5	0000–2400	
	BAJINA BASTA	YUG	19E34 43N58	D20	0.3	0.15	40	5	0000–2400	
	BOS DUBICA	YUG	16E49 45N12	D20	1	0.50	40	3	0000–2400	
	BOS GRAHOVO	YUG	16E24 44N11	D20	1	0.50	40	5	0000–2400	
	BUDVA	YUG	18E50 42N17	D20	1	1.00	40	4	0000–2400	
	BUJANOVAC	YUG	21E48 42N28	D20	0.3	0.15	40	4	0000–2400	
	BUJE	YUG	13E39 45N24	D20	1	0.50	40	4	0000–2400	
	CAPLJINA	YUG	17E41 43N16	D20	1	0.50	40	5	0000–2400	
	CRIKVENICA	YUG	14E45 45N10	D20	1	0.50	40	7	0000–2400	
	CRNA TRAVA	YUG	22E20 42N50	D20	1	0.50	40	5	0000–2400	
	CRNOMELJ	YUG	15E12 45N34	D20	1	0.50	40	4	0000–2400	
S	DEBAR 3	YUG	20E32 41N32	D20	1	0.50	40	6	0000–2400	
	DELNICE	YUG	14E50 45N22	D20	1	0.50	40	6	0000–2400	
	G MILANOVAC	YUG	20E28 44N01	D20	0.3	0.15	40	4	0000–2400	
	GRUDE	YUG	17E20 44N22	D20	1	0.50	40	5	0000–2400	
	ILIRS BISTRICA	YUG	14E15 45N35	D20	1	0.50	40	8	0000–2400	
	IVANGRAD 2	YUG	19E51 42N53	D20	1	0.50	40	5	0000–2400	
	KARLOVAC 2	YUG	15E33 45N27	D20	1	1.00	60	3	0000–2400	

	Assigned frequency (kHz) (Channel number)	Name of transmitting station	Country symbol	Geographical coordinates of transmitting station	Necessary bandwidth (kHz)	Carrier power (kW)	Effective monopole radiated power (e.m.r.p.) (kW)	Antenna height (m)	Ground conductivity (mS/m)	Hours of operation (UTC)	Remarks
	1	2	3	4	5	6	7	8	9	10	11

	1	2	3	4	5	6	7	8	9	10	11
1	1602	KICEVO 1	YUG	20E58 41N31	D20	1	0.50	40	6	0000–2400	
2	(120)	KOBARID	YUG	13E36 46N15	D20	0.1	0.05	40	7	0000–2400	
3		KOCANI	YUG	22E25 41N55	D20	1	0.50	40	4	0000–2400	
4		KOMROVEC	YUG	15E42 46N03	D20	0.1	0.05	40	4	0000–2400	
5		KOS MITROVICA	YUG	20E52 42N53	D20	1	0.50	40	5	0000–2400	
6		LESKOVAC	YUG	21E57 43N00	D20	1	0.50	40	4	0000–2400	
7		MAKARSKA	YUG	17E06 42N45	D20	1	0.50	40	5	0000–2400	
8		NEGOTIN	YUG	22E32 44N15	D20	1	0.50	40	3	0000–2400	
9		NOVO MESTO	YUG	15E10 45N48	D20	1	0.50	40	7	0000–2400	
10		ORMOZ	YUG	16E10 46N24	D20	0.1	0.05	40	4	0000–2400	
11		PITOMACA	YUG	17E15 45N56	D20	0.1	0.05	40	4	0000–2400	
12		PLEVLJA	YUG	19E23 43N21	D20	1	0.50	40	6	0000–2400	
13		RESEN 1	YUG	21E01 41N06	D20	1	1.00	40	6	0000–2400	
14		SANSKI MOST	YUG	16E42 44N46	D20	1	0.50	40	4	0000–2400	
15		SAVNIK 2	YUG	19E07 42N58	D20	1	0.50	40	5	0000–2400	
16		SEVNICA	YUG	15E19 46N01	D20	0.1	0.10	60	6	0000–2400	
17		SKOPJE	YUG	21E33 41N59	D20	1	1.00	60	4	0000–2400	
18		SL POZEGA	YUG	17E41 45N19	D20	1	0.50	40	4	0000–2400	
19		SLOVENJGRADEC	YUG	15E05 46N30	D20	1	0.50	40	5	0000–2400	
20		STRUGA	YUG	20E42 41N11	D20	1	0.50	40	6	0000–2400	
21		SUBOTICA	YUG	19E44 46N10	D20	1	0.50	40	3	0000–2400	
22		TIVAT	YUG	18E42 42N26	D20	1	0.63	60	4	0000–2400	
23		VALANDOVO	YUG	22E34 41N19	D20	1	0.50	40	4	0000–2400	
24		VRNJACKA BANJA	YUG	20E55 43N36	D20	0.3	0.15	40	4	0000–2400	
25		VRSAC	YUG	21E17 45N07	D20	1	0.50	40	3	0000–2400	
26		KASEMPA	ZMB	25E47 13S23	A20	1	1.00	19	4	0200–2100	
27		KAWAMBWA	ZMB	29E05 09S47	A20	1	1.00	19	4	0200–2100	
28		LUNDAZI	ZMB	33E10 12S15	A20	1	1.00	19	4	0200–2100	
29		MWINILUNGA	ZMB	24E27 11S43	A20	1	1.00	45	4	0200–2100	
30		NAMWALA	ZMB	26E30 15S45	A20	1	1.00	19	4	0200–2100	
31		SERENJE	ZMB	30E40 12S53	A20	1	1.00	19	4	0200–2100	

APPENDICE 2 AU PLAN

Gain de l'antenne (en dB) pour différents azimuts et angles de site

Deuxième édition, novembre 1981
(Accord régional, Genève, 1975, article 4,
paragraphes 3.5.5 et 3.5.6)

APPENDIX 2 TO THE PLAN

Antenna Gain (dB) for different Azimuths and Angles of Elevation

Second Edition, November 1981
(Regional Agreement, Geneva, 1975, Article 4,
paragraphs 3.5.5 and 3.5.6)

APÉNDICE 2 AL PLAN

Ganancia de antena (en dB) para diferentes acimutes y ángulos de elevación

Segunda edición, noviembre de 1981
(Puntos 3.5.5 y 3.5.6 del Artículo 4 del
Acuerdo Regional, Ginebra, 1975)

NOTE EXPLICATIVE

La Conférence administrative régionale de radiodiffusion à ondes kilométriques et hectométriques (Régions 1 et 3), Genève, 1975, a décidé en séance plénière, lors des première et deuxième lectures de l'Appendice 2 au Plan, qu'avant la date d'entrée en vigueur de l'Accord, le Comité établirait la version finale de cet Appendice en appliquant une procédure similaire à la procédure décrite au point 1 de la Résolution N° 2 et en s'assurant que les données contenues dans cet Appendice concordent avec les données inscrites dans les colonnes 7 à 10 du Plan (voir les procès-verbaux des 12e et 13e séances plénières, Documents Nos 326 et 327).

2. Le Comité s'est adressé aux administrations pour lesquelles les caractéristiques d'antenne indiquées dans l'Appendice 2 (publié dans les Actes finals de la Conférence) différaient des caractéristiques inscrites dans les colonnes 7 à 10 du Plan, ainsi qu'aux administrations au nom desquelles figurent dans le Plan des assignations indiquant l'emploi d'une antenne autre qu'une antenne verticale simple alimentée à la base, alors qu'aucune donnée correspondante ne figure dans l'Appendice 2.

3. La présente Appendice 2 donne les caractéristiques de rayonnement de toutes les antennes d'émission autres que des antennes verticales simple alimentées à la base et se compose des données ci-après :

3.1 les caractéristiques d'antenne qui étaient dès le début compatibles avec le Plan ou qui ont été modifiées par les administrations concernés afin d'être compatibles avec le Plan ;

3.2 les caractéristiques d'antenne communiquées par les administrations concernées dans les cas où l'Appendice 2 ne contenait pas de telles données ;

3.3 les caractéristiques d'antenne provisoirement adoptées par le Comité afin d'appliquer la procédure définie dans l'Accord ; ces caractéristiques ont été adoptées dans les cas suivants :

3.3.1 lorsque l'administration à laquelle le Comité a demandé de corriger les données figurant dans l'Appendice 2 provisoire afin d'assurer la compatibilité de cet Appendice avec le Plan, ou bien n'a accusé réception ni de cette demande ni des messages de rappel, ou bien a indiqué qu'elle n'était pas en mesure de le faire ; de telles inscriptions sont précédées du symbole * ;

3.3.2 lorsque l'administration à laquelle le Comité a demandé de fournir les données manquantes sur les caractéristiques d'antenne correspondant à une assignation pour laquelle des renseignements figurent dans les colonnes 7 à 10 du Plan n'a accusé réception ni de cette demande, ni des messages de rappel, ou a répondu ne pas être en mesure de le faire ; de telles inscriptions sont précédées du symbole **.

4. Bien que la Conférence n'ait pas exigé des administrations des caractéristiques d'antenne détaillées spécifiant le gain dans les différents azimuts (et angles de site), l'insertion de ces renseignements dans l'Appendice 2 au Plan est cependant indispensable à l'application de l'Article 4 de l'Accord, ainsi qu'à l'établissement du document prévu par la Résolution N° 4 de la Conférence.

RENSEIGNEMENTS CONCERNANT LES CARACTÉRISTIQUES DE RAYONNEMENT DES ANTENNES D'ÉMISSION AUTRES QUE LES ANTENNES VERTICALES SIMPLES ALIMENTÉES À LA BASE

Colonne 1 : *Symbole désignant le pays* ou la zone géographique où est située la station (voir Tableau N° 1 de la Préface à la Liste internationale des fréquences).

Colonne 2 : *Fréquence assignée du canal*, en kHz.

Colonne 3 : *Nom de la station d'émission.*

Colonne 4 : *Angle de site.*

Note. — Les azimuts et les angles de site sont exprimés en dizaines de degrés et le gain d'antenne en dB.

EXPLANATORY NOTE

In the course of the first and second readings of Appendix 2 to the Plan at the Plenary Meetings of the Regional Administrative LF/MF Broadcasting Conference (Regions 1 and 3), Geneva, 1975, it was agreed that before the date of entry into force of the Agreement, the Board would apply a procedure similar to that dealt with in paragraph 1 of Resolution No. 2 with a view to producing a definitive version of Appendix 2 so that the information contained in that Appendix is in concordance with the information given in Columns 7 to 10 of the Plan (Minutes of the 12th and 13th Plenary Meetings, Documents Nos. 326 and 327).

2. The Board contacted the Administrations having antenna characteristics in Appendix 2 to the Plan, included in the Final Acts of the Conference, which did not concord with the information in Columns 7 to 10 of the Plan as well as those Administrations having assignments with antennae other than the simple vertical base-fed antennae but for which no corresponding data appeared in Appendix 2.

3. The present Appendix 2 to the Plan contains the radiation characteristics of all the transmitting antennae, other than the simple vertical base-fed antennae and is composed of the following information:

3.1 antenna characteristics which were initially compatible with the Plan, or for which the Administrations concerned have provided the characteristics which make them compatible with the Plan;

3.2 antenna characteristics provided by Administrations for those cases where Appendix 2 did not contain such data;

3.3 the antenna characteristics provisionnally adopted by the Board, for the application of the procedure laid down in the Agreement, in the following cases:

3.3.1 where the Administration contacted for the supply of the correcting data to make the information in Appendix 2 compatible with the Plan, either did not acknowledge the Board's request and subsequent reminders or expressed its inability to do so. Such entries are identified by the symbol * to the left of the entry;

3.3.2 where the Administration contacted for the supply of the missing data on antenna characteristics corresponding to an assignment having information in Columns 7 to 10 of the Plan either did not acknowledge the Board's request and subsequent reminders or expressed its inability to supply the requested information. Such entries are identified by the symbol ** to the left of the entry.

4. Although the Conference did not make it mandatory upon Administrations to furnish the detailed antenna characteristics, showing the gain for different azimuths (and angles of elevation), the inclusion of such information in Appendix 2 to the Plan is nevertheless essential for the application of Article 4 of the Agreement as well as for the preparation of the document required under Resolution No. 4 of the Conference.

INFORMATION CONCERNING THE RADIATION CHARACTERISTICS OF TRANSMITTING ANTENNAE OTHER THAN SIMPLE VERTICAL BASE-FED ANTENNAE

Column 1: *Symbol designating the country* or the geographical area in which the station is located (see Table No. 1 of the Preface to the International Frequency List).

Column 2: *Assigned channel frequency* (kHz).

Column 3: *Name of transmitting station.*

Column 4: *Angle of elevation.*

Note. — The azimuths and angles of elevation are expressed in tens of degrees and the antenna gain is in dB.

NOTA EXPLICATIVA

En el curso de la primera y segunda lecturas del Apéndice 2 al Plan en las sesiones plenarias de la Conferencia Administrativa Regional de Radiodifusión por ondas kilométricas y hectométricas (Regiones 1 y 3), Ginebra, 1975, se acordó que antes de la fecha de entrada en vigor del Acuerdo, la Junta aplicaría un procedimiento similar al expuesto en el punto 1 de la Resolución N.º 2, con el objeto de establecer una versión definitiva del Apéndice 2 en la que concuerde la información contenida en dicho apéndice con la que figura en las columnas 7 a 10 del Plan (Actas de las 12.ª y 13.ª sesiones plenarias, Docs. N.ºs 326 y 327).

2. La Junta se ha puesto en contacto con las administraciones que tienen inscritas en el Apéndice 2 al Plan que se halla incluido en las Actas Finales de la Conferencia antenas cuyas características no concuerdan con la información de las columnas 7 a 10 del Plan, así como con aquellas administraciones que tienen asignaciones correspondientes a antenas distintas de las antenas verticales simples alimentadas por la base, pero cuyos datos correspondientes no figuran en el Apéndice 2.

3. El actual Apéndice 2 al Plan incluye las características de radiación de todas las antenas transmisoras, con excepción de las antenas verticales simples alimentadas por la base y presenta la siguiente información:

3.1 características de las antenas inicialmente compatibles con el Plan, o con referencia a las cuales las administraciones interesadas han indicado características que las hacen compatibles con el Plan;

3.2 características de las antenas facilitadas por las administraciones en los casos en que el Apéndice 2 no contenía tales datos;

3.3 las características de las antenas provisionalmente adoptadas por la Junta, para la aplicación del procedimiento especificado en el Acuerdo, en los casos siguientes:

3.3.1 cuando la administración que tenía que comunicar los datos corregidos para hacer compatible la información del Apéndice 2 con el Plan, o bien no respondió al pedido de la Junta ni a sus recordatorios posteriores o bien manifestó que no estaba en condiciones de facilitar la información solicitada. Estos casos se indican mediante el símbolo * a la izquierda de la inscripción;

3.3.2 cuando la administración que tenía que comunicar los datos faltantes sobre las características de las antenas correspondientes a una asignación con información en las columnas 7 a 10 del Plan, o bien no respondió al pedido de la Junta y sus recordatorios posteriores, o bien manifestó que no estaba en condiciones de facilitar la información solicitada. Estos casos se registran con el símbolo ** a la izquierda de la inscripción.

4. Aunque la Conferencia no impuso a las administraciones la obligación de facilitar las características detalladas de las antenas, indicando la ganancia para diferentes acimutes (y ángulos de elevación), es esencial incluir dicha información en el Apéndice 2 al Plan para la aplicación del Articulo 4 del Acuerdo, así como para la preparación del documento solicitado en la Resolución N.º 4 de la Conferencia.

INFORMACIÓN SOBRE LAS CARACTERÍSTICAS DE RADIACIÓN DE LAS ANTENAS TRANSMISORAS DISTINTAS DE LAS ANTENAS VERTICALES SIMPLES ALIMENTADAS POR LA BASE

Columna 1: *Símbolo del país* o área geográfica en la que está ubicada la estación (véase el Cuadro N.º 1 del Prefacio a la Lista Internacional de Frecuencias).

Columna 2: *Frecuencia asignada del canal*, en kHz.

Columna 3: *Nombre de la estación transmisora.*

Columna 4: *Angulo de elevación.*

Nota. — Los acimutes y ángulos de elevación están expresados en decenas de grados y la ganancia de antena en dB.

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	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
					00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
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*	EGY	164	EL QUSIYA	0	4	4	3	0	-8	-13	-13	-13	-12	-12	-12	-10	-8	-5	-2	1	3	4	4	4	3	1	-2	-5	-8	-10	-11	-12	-12	-12	-12	-13	-13	-13	-8	0
	F	164	ALLOUIS	0	2	2	2	1	0	0	-1	-1	-1	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	-1	-1	-1	0	0	1	2	2
	TUR	164	ARDAHAN	0	-10	-15	-15	-15	-15	-15	-15	-15	-15	-15	-11	-7	-4	-2	0	0	2	2	3	3	3	3	3	3	3	3	2	2	2	2	1	0	0	-2	-4	-7
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	MRC	173	NADOR	0	-8	-8	-8	-8	-8	-8	-4	-3	1	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	-3	-4	-8	-8	-8	-8	-8
	D	182	SAARLOUIS	0	-18	-19	-19	-20	-20	-20	-20	-17	-17	-17	-17	-16	-12	-7	-4	-1	2	3	4	4	5	5	5	5	5	5	4	3	1	-1	-4	-6	-10	-13	-15	-17
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	EGY	200	EL QUSIYA	0	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	2	3	4	4	5	5	5	4	4	3	2	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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SYR	254	SARAKEB 2	0	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-15	-10	-5	-2	0	2	3	4	5	5	5	5	5	4	3	2	0	-2	-5	-10	-15	-25	-25	-25	-25
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	KRE	531	PYONGCHON	0	0	-2	-5	-17	-19	-13	-15	-22	-22	-15	-7	0	2	3	3	3	2	0	-7	-15	-22	-22	-15	-13	-10	-5	-2	0	0	0	0	0	0	0	0	0
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	TGK	531	DAR ES SALAAM	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-2
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	AUS	540	SCOTTSDALE TAS	0	-9	-4	-2	0	1	2	2	2	2	2	2	1	0	-1	-1	-4	-9	-15	-11	-5	-2	0	1	2	2	2	2	2	2	2	1	0	-1	-2	-10	-15
	CHN	540	FUYUAN	0	0	0	0	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-1	-1	0	0	0	0	0	0	0	0
	IND	540	AIJAL	0	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-2	-2	-3	-3	-3
	J	540	NANAO	0	1	0	0	0	-1	-1	-2	-2	-3	-3	-3	-3	-3	-3	-4	-4	-4	-3	-3	-3	-3	-3	-2	-1	-1	-1	0	0	1	1	1	1	1	1	1	1
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	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	J	540	YAMAGATA	0	3	3	2	1	0	-1	-2	-4	-4	-5	-5	-4	-4	-3	-2	-2	-1	-1	-2	-4	-4	-5	-5	-5	-4	-3	-2	-1	1	2	2	3	3	3	3	3
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	KRE	540	MYONGGAN	0	-7	-9	-10	-7	-7	-6	-5	-5	-5	-6	-7	-7	-10	-9	-7	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3	3	2	0	-2	-4
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*	MNG	540	TSETSERLIG	0	2	2	2	2	2	2	2	2	2	1	0	-2	-5	-10	-13	-13	-13	-13	-13	-13	-13	-13	-13	-10	-5	-2	0	1	2	2	2	2	2	2	2	2
	MRC	540	SIDI BENNOUR	0	0	0	2	3	3	3	3	2	2	1	1	0	0	0	0	1	1	1	2	3	3	3	3	3	2	2	1	0	-2	-6	-10	-10	-6	-3	0	0
	NZL	540	WAIMIHA	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-4	-5	-7	-8	-8	-8	-7	-5	-4	-3	-1	0
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	TUR	540	AYDINCIK	0	-15	-15	-15	-10	-10	-1	1	2	3	2	1	-1	-3	-7	-15	-15	-15	-15	-15	-15	-15	-15	-3	-1	1	2	3	2	1	-1	-3	-10	-15	-15	-15	-15
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*	ARS	549	GIZAN	0	-15	-15	-15	-15	-15	-15	-15	-15	-15	-8	-1	4	5	5	4	4	3	2	-5	-10	-11	-13	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
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	D	549	RECKLINGHAUSEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-6	-8	-8	-8	-8	-8	-8	-8	-8	-6	-2	0	0	0	0	0	0
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	AUS	558	ATHERTON QLD	0	3	0	-4	-8	-4	0	0	3	3	3	3	3	2	0	-4	-8	-3	2	3	4	3	1	-3	-7	-8	-5	-4	-3	-3	-6	-8	-6	-2	1	3	4
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	FNL	558	PORVOO	0	2	2	3	3	2	2	2	1	1	1	1	0	-1	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-2	-2	-2	-1	-1	-1	0	1	1	1	1	2
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	LBY	558	TRIPOLI KM16	0	5	5	5	4	4	3	3	2	1	0	-5	-14	-15	-24	-24	-24	-24	-24	-24	-24	-15	-14	-5	0	1	2	3	3	4	4	5	5	5	5	5	5
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ROU	558	TARGU JIU	0	-10	-10	-10	-8	-5	-3	-2	0	1	1	2	2	3	3	3	3	3	3	2	2	1	1	0	-2	-3	-5	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10
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TUR	558	TAVAS	0	5	5	5	5	4	3	2	0	-2	-3	-3	-3	-3	-2	0	2	3	4	5	5	5	5	4	3	2	0	-2	-3	-3	-3	-3	-2	0	2	3	4
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URS	558	UGLEGORSK	0	4	4	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	1	0	0	-1	-4	-6	-6	-6	-6	-6	-4	-1	0	0	1	1	2	3	3
AUS	567	CHARLEVIL QLD	0	3	4	4	3	2	0	-2	-5	-7	-8	-8	-6	-3	0	1	3	4	4	3	1	-2	-8	-15	-7	-2	-1	0	1	0	0	-2	-5	-15	-14	-5	0
AUS	567	JULIA CK QLD	0	6	6	6	6	6	5	5	4	3	1	-1	-3	-7	-11	-14	-16	-16	-16	-16	-14	-11	-7	-3	-1	1	3	4	5	5	6	6	6	6	6	6	6
CHN	567	QINHUANGDAO	0	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	567	AOSTA	0	-2	-1	0	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	1	1	1	0	-1	-2	-4	-5	-6	-6	-7	-6	-6	-5	-4
I	567	BOLZANO	0	-1	-1	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	-1	-1	-2	-3	-3	-4	-4	-4	-4	-4	-3	-3	-2
I	567	CALTANISSETTA	0	0	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	0	0	-1	-1	-1	-1	-1	0
I	567	FIRENZE	0	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	-1	-1	-2	-2	-3	-3	-3	-3	-3	-2
I	567	FOGGIA	0	-4	-2	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-4	-5	-7	-8	-9	-10	-9	-8	-7	-5
I	567	SASSARI	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-3	-2	-1	-1	0	0	0	0	0	0	0	-1	-1	-2	-3	-3	-2	0
PAK	567	KHOZDAR	0	-8	-11	-19	-23	-28	-28	-28	-28	-28	-23	-19	-11	-8	-6	-3	-2	0	1	2	3	3	4	4	4	4	4	4	4	3	3	2	1	0	-2	-3	-6

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	ROU	567	SATU MARE	0	-10	-8	-5	-3	-2	0	1	1	2	3	3	3	3	3	3	3	2	1	1	0	-2	-3	-5	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
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	URS	576	RIGA	0	5	4	4	4	4	5	5	5	5	5	4	3	3	1	-1	-3	-7	-12	-15	-15	-15	-15	-15	-15	-15	-12	-5	-1	1	3	3	4	5	5	5	5

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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AUS	585	TOMERONG NSW	0	2	3	4	4	3	2	-1	-3	-6	-8	-10	-9	-7	-4	-2	1	2	4	4	4	2	0	-4	-11	-13	-7	-4	-2	-2	-2	-3	-6	-10	-14	-6	-1
KRE	585	PYONGYANG	0	-4	-4	1	1	1	1	0	0	1	1	1	0	-3	-12	-24	-24	-12	-3	0	0	0	0	0	0	0	-1	-3	-3	-1	0	0	0	1	1	1	1
URS	585	SVOBODNYI	0	4	4	4	5	5	5	5	4	3	1	-1	-4	-6	-8	-12	-12	-12	-12	-12	-12	-12	-12	-12	-8	-6	-4	-1	1	3	4	5	5	5	4	4	4
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BRU	594	TUTONG	0	-20	-10	-6	-3	-1	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	-1	-3	-6	-10	-20	-10	-7	-7	-10
BUL	594	PLEVEN	0	-5	-5	-5	-5	-5	-5	-4	-3	-2	-1	-1	0	1	1	1	2	2	2	2	2	2	2	2	1	1	1	0	-1	-1	-2	-3	-4	-5	-5	-5	-5
CHN	594	LHASA	0	1	1	1	1	1	1	1	2	2	2	2	1	1	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	1	1	2	2	2	2	1
CHN	594	WENCHENG	0	-21	-21	-17	-12	-7	-4	-2	0	1	2	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-2	-4	-7	-12	-17	-21	-21	-21	-21	-21
CLN	594	WEERAKETIYA	0	-7	-5	-3	-1	0	1	1	1	1	1	0	-1	-3	-5	-7	-9	-10	-10	-10	-9	-7	-3	1	3	3	3	3	3	1	-3	-7	-9	-10	-10	-10	-9
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D	594	FRANKFURT MAIN	0	-4	-10	-11	-6	-3	-1	-1	0	-1	-2	-4	-10	-11	-10	-2	1	3	4	4	4	3	2	1	0	-1	-2	-1	0	1	2	3	4	4	3	2	0
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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D	594	HOHER MEISSNER	0	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	0	0	1	2	2	3	3	4	4	4	4	4	3	3	2	2	1	1	0	-2	-3	-3	-3	-4	-5
IND	594	MADRAS 2	0	3	3	3	3	3	3	2	2	1	0	-1	-3	-4	-8	-12	-18	-18	-18	-18	-18	-18	-18	-12	-8	-4	-3	-1	0	1	2	2	3	3	3	3	3
NMB	594	KHORIXAS	0	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-3	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-3	-5	-6
PHL	594	MALOLOS BUL	0	2	-1	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-1	2	3	3	3	3	2	-1	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-1	2	3	3	3	3
TUR	594	MALATYA	0	0	0	-1	-3	-7	-15	-10	-3	0	2	3	3	1	-1	-4	-9	-10	-12	-15	-15	-15	-15	-4	-1	1	3	3	2	0	-3	-10	-15	-7	-3	-1	0
URS	594	IJEVSK	0	-2	0	1	2	3	4	4	4	5	5	5	5	5	5	5	5	5	4	4	4	3	2	1	0	-2	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4
EGY	603	RAS BANAS	0	5	6	6	6	6	6	6	6	6	6	6	5	4	3	-1	-8	-10	-10	-6	-4	-3	-4	-5	-5	-5	-4	-3	-3	-4	-6	-10	-10	-9	-1	0	4
FNL	603	MARIEHAMN 1	0	2	2	2	2	2	2	1	1	0	-1	-2	-2	-3	-3	-3	-3	-3	-4	-4	-4	-4	-4	-4	-4	-4	-3	-3	-3	-2	-2	-2	-1	-1	0	1	1
KOR	603	NAM YANG	0	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-7	-7	-7	-7	-7	-7	-6	-5	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2
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NIG	603	ABAFON	0	-7	-6	-7	-8	-10	-6	-2	1	3	4	3	2	-1	-6	-10	-5	-2	0	1	1	1	0	-2	-6	-10	-5	0	2	4	4	3	1	-2	-6	-9	-8
ROU	603	BOTOSANI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	-1	0	0	0	0	0
VTN	603	DANANG	0	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-6
ARS	612	GURIAT	0	7	4	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-1	5	7	8	8	8	8	8
CHN	612	JIXI	0	0	0	-1	-1	-2	-3	-4	-5	-5	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-5	-4	-4	-3	-2	-2	0	0	0	1	1	1	1	0	0
CHN	612	SANMING	0	-3	-4	-4	-4	-4	-4	-4	-4	-3	-3	-3	-3	-3	-2	-2	-1	-1	0	0	0	1	2	3	2	1	1	1	1	0	0	0	-1	-1	-2	-3	-3
IND	612	BANGALORE	0	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4
IRN	612	QASR SHIRIN	0	-2	-3	-7	-14	-20	-14	-14	-8	-8	-8	-8	-8	-14	-14	-20	-14	-7	-3	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	3	2	1	0
IRN	612	QASR SHIRIN	0	-2	-3	-7	-14	-20	-14	-14	-8	-8	-8	-8	-8	-14	-14	-20	-14	-7	-3	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	3	2	1	0
ISR	612	EZYON	0	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9	-9
KRE	612	CHONMA	0	3	3	2	0	-2	-4	-8	-14	-29	-21	-16	-15	-16	-21	-29	-14	-8	-4	-2	0	2	3	3	3	3	3	2	2	1	1	1	2	2	3	3	3

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
PAK	612	GWADAR	0	-6	-5	-4	-3	-2	-2	-2	-2	-3	-3	-4	-7	-9	-9	-9	-9	-8	-6	-4	-3	1	2	3	4	4	4	3	3	2	0	-3	-6	-9	-10	-11	-11
PAK	612	GWADAR	0	-6	-5	-4	-3	-2	-2	-2	-2	-3	-3	-4	-7	-9	-9	-9	-9	-8	-6	-4	-3	1	2	3	4	4	4	3	3	2	0	-3	-6	-9	-10	-11	-11
URS	612	BAKU	0	5	5	5	4	4	3	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-7	-7	-7	-7	-7	-7	-6	-5	-2	1	3	3	4	5	5	5	5	5	5
EGY	621	BATRA	0	0	2	3	4	4	4	4	5	5	6	6	6	6	5	5	5	4	4	2	1	0	-1	-2	-4	-5	-7	-6	-5	-4	-3	-3	-3	-4	-4	-3	-1
I	621	C SPULICO	0	0	2	3	4	4	4	3	2	0	-2	-5	-7	-10	-11	-10	-7	-5	-2	0	2	3	4	4	4	3	2	0	-2	-5	-8	-10	-11	-10	-8	-5	-2
I	621	CITTA CASTELLO	0	-3	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-3	-6	-9	-10	-10	-9	-6
IND	621	PATNA	0	-1	-3	-5	-6	-7	-6	-5	-3	-1	0	1	2	3	3	3	2	1	0	-1	-3	-5	-6	-7	-6	-5	-3	-1	0	1	2	3	3	3	2	1	0
J	621	ASAHIKAWA	0	2	2	2	2	2	2	2	2	1	1	0	0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	0	0	1	1	2	2	2
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KRE	621	SARIWON	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-26	-17	-24	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1	0
KRE	621	SARIWON	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-26	-17	-24	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1	0
THA	621	KHON KAEN	0	2	2	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-1	-3	-5	-7	-10	-15	-15	-15	-15	-15	-15	-15	-15	-10	-7	-5	-2	-1	0	1
URS	621	KEMEROVO	0	4	3	3	2	1	1	0	0	-1	-2	-3	-3	-3	-3	-3	-3	-2	-1	0	0	1	1	2	3	3	3	4	4	5	5	5	5	5	5	5	4
URS	621	MAKHATCHKALA	0	2	0	-2	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-2	0	1	2	3	3	4	4	5	5	5	5	5	5	5	5	5	4	4	3	3
IND	630	TRICHUR	0	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7
* NZL	630	OPAPA	0	-3	0	0	0	0	0	0	0	-3	-3	-3	-6	-7	-8	-8	-7	-5	-3	-3	0	0	0	0	0	0	0	-3	-3	-3	-6	-7	-8	-8	-7	-5	-3

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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*	ROU	630	TIMISOARA	0	-10	-10	-7	-4	-2	-1	0	1	2	2	3	3	3	3	3	3	3	2	2	1	0	-1	-2	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
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	TUR	630	CUKUROVA	0	-6	-1	1	3	4	5	6	6	6	6	5	4	3	1	-1	-6	-15	-15	-6	-1	1	3	4	5	6	6	6	6	5	4	3	1	-1	-6	-15	-15
	URS	630	KHABAROVSK	0	2	3	4	5	5	5	5	5	5	5	5	5	5	5	4	3	2	1	0	-4	-9	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-9	-4	0	1
* *	CYP	639	ZYYI	0	-10	-11	-12	-13	-13	-12	-11	-11	-11	-10	-9	-8	-6	-3	0	4	6	7	8	7	6	4	0	-3	-6	-8	-9	-10	-10	-10	-11	-12	-13	-13	-12	-11
	IRL	639	SLANE	0	1	0	-2	-4	-6	-10	-13	-13	-13	-14	-14	-14	-13	-13	-13	-10	-6	-4	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	4	3	2
	KRE	639	CHONGJIN	0	3	3	2	1	-3	-7	-3	-1	0	0	-2	-5	-10	-17	-18	-17	-10	-5	-5	-10	-17	-18	-17	-10	-5	-2	0	1	2	3	3	4	4	4	4	4
	KRE	639	CHONGJIN	0	3	3	2	1	-3	-7	-3	-1	0	0	-2	-5	-10	-17	-18	-17	-10	-5	-5	-10	-17	-18	-17	-10	-5	-2	0	1	2	3	3	4	4	4	4	4
	PAK	639	KARACHI	0	1	2	3	4	4	4	3	3	2	0	-3	-6	-9	-10	-11	-11	-10	-7	-4	-3	-2	-2	-2	-2	-3	-3	-4	-7	-9	-9	-9	-7	-7	-6	-4	-3
	VTN	639	QUINHON	0	-2	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-2	-1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	2	1	0	-1
	ARS	648	JEDDAH	0	-15	-15	-15	-15	-13	-11	-7	-1	2	3	4	4	5	5	5	4	4	3	2	-1	-7	-11	-13	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
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*	GMB	648	BONTO 1	0	-1	1	2	3	3	3	3	3	3	3	3	3	3	3	2	1	-1	-3	-5	-6	-7	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-7	-6	-5	-3
	TGK	648	NACHINGWEA	0	0	-1	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0
	URS	648	IMAN	0	4	4	4	4	5	5	5	5	5	4	3	2	0	-2	-4	-9	-14	-14	-14	-14	-14	-14	-14	-9	-4	-2	0	2	3	4	5	5	5	5	5	4
	URS	648	URGHENTCH	0	3	3	3	3	3	3	3	3	3	3	0	-1	-5	-7	-10	-10	-10	-10	-10	-10	-10	-7	-5	-1	0	3	3	3	3	3	3	3	3	3	3	3
	AUS	657	BYROCK NSW	0	4	4	4	3	3	1	-2	-4	-9	-15	-15	-15	-15	-15	-15	-10	-8	-4	-1	1	2	3	4	4	4	3	3	3	2	2	1	1	2	3	3	4

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
					00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	IND	657	CALCUTTA	0	-1	-1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-2	-2	-3	-4	-3	-2	-2	-2
	KRE	657	KANGNAM	0	-3	-9	-16	-30	-30	-30	-28	-27	-24	-20	-20	-20	-23	-23	-20	-20	-20	-20	-24	-27	-28	-30	-30	-30	-16	-9	-3	1	4	6	7	7	7	6	4	1
	KRE	657	KANGNAM	0	-3	-9	-16	-30	-30	-30	-28	-27	-24	-20	-20	-20	-23	-23	-20	-20	-20	-20	-24	-27	-28	-30	-30	-30	-16	-9	-3	1	4	6	7	7	7	6	4	1
	NIG	657	IBADAN	0	2	2	2	3	3	3	4	4	4	3	1	2	1	0	-2	-4	-6	-8	-9	-9	-8	-7	-6	-3	-1	0	1	2	3	4	4	4	4	3	3	3
	TGK	657	DAR ES SALAAM	0	0	-1	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0
	TUR	657	URLA	0	-20	-20	-20	-20	-20	-20	-20	-20	-20	18	-6	-3	-1	-1	-1	-1	3	4	4	4	3	3	2	0	-1	-3	-6	-18	-20	-20	-20	-20	-20	-20	-20	-20
	UAE	657	AL AIN	0	-20	-20	-20	-16	-12	-8	-5	-3	-1	0	1	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	1	0	-1	-3	-5	-8	-10	-15	-20	-20
*	ALG	666	TINDOUF	0	-11	-13	-15	-15	-15	-15	-15	-15	-15	-13	-11	-11	-11	-11	-10	-10	-8	-6	-4	-2	0	2	4	4	4	2	0	-2	-4	-6	-8	-10	-10	-11	-11	-11
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	AUS	666	GLEN INNES NSW	0	3	3	2	0	-2	-5	-7	-9	-9	-7	-6	-3	-1	1	2	3	3	2	0	-3	-7	-14	-12	-7	-4	-3	-2	-3	-4	-6	-10	-15	-6	-2	1	3
	D	666	BODENSEESENDER	0	0	0	-1	-4	-8	-9	-5	-3	-2	-3	-5	-7	-7	-8	-7	-5	-4	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GRC	666	TRIKALA	0	-15	-15	-15	-13	-11	-7	-4	-3	-1	0	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-3	-4	-7	-11	-13	-15	-15	-15	-15
	IND	666	DELHI	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-8
	SDN	666	KASSALA	0	-9	-13	-15	-15	-15	-15	-15	-15	-15	-15	-15	-14	-8	-6	-3	-1	0	1	2	3	3	3	4	4	4	4	4	4	4	3	2	1	0	-2	-3	-6
	URS	666	KOMSOMOLSKAMUR	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	-3	-7	-10	-10	-10	-10	-7	-3	0	3	3	3	3	3	3	3	3
	URS	666	SKOVORODINO	0	5	5	5	5	5	5	3	2	1	0	-1	-2	-3	-5	-7	-7	-7	-7	-7	-5	-3	-2	-2	-1	0	1	2	3	5	5	5	5	5	5	5	5
**	URS	666	VILNIUS	0	5	5	5	5	5	5	5	5	4	4	3	2	1	1	-1	-3	-5	-5	-6	-6	-6	-6	-6	-6	-6	-6	-5	-5	-3	-1	1	1	2	3	4	4

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
ZMB	666	CHIPATA	0	-4	-8	-4	-4	-2	-2	0	0	0	0	0	-2	-2	-4	-4	-8	-4	-2	0	2	3	4	5	5	6	6	6	6	6	6	5	4	4	2	1	-2
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			9									-14																	-14									
AUS	675	COROWA NSW	0	0	0	1	2	3	4	5	5	5	5	4	2	-1	-7	-15	-11	-6	-4	-3	-3	-4	-6	-11	-15	-7	-1	2	4	5	5	5	5	4	3	2	1
BRU	675	KG SERASA	0	-5	-5	-5	-6	-7	-15	-6	-5	-3	-2	-2	-1	-1	0	1	1	2	3	3	3	3	3	2	1	1	0	-1	-1	-2	-2	-3	-5	-6	-15	-7	-6
IND	675	ITANAGAR	0	3	2	2	1	0	-1	-2	-4	-6	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-6	-4	-2	-1	0	1	2	2	3	3	3	3	3	3
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IRL	675	DUNGARVAN 2	0	0	-2	-4	-6	-10	-10	-10	-10	-10	-11	-10	-10	-10	-10	-10	-6	-4	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	4	4	3	2	1
J	675	HAKODATE	0	2	1	1	1	0	0	-1	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-1	-1	-1	-1	0	0	1	1	2	2	2	2	2
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VTN	675	NHATRANG	0	-1	-2	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-2	0	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0
* GMB	684	BONTO 2	0	-1	1	2	3	3	3	3	3	3	3	3	3	3	3	2	1	-1	-3	-5	-6	-7	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-7	-6	-5	-3
IRN	684	MASHHAD	0	0	0	-1	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRE	684	SAMGO	0	-30	-30	-30	-28	-27	-24	-14	-14	-10	-5	-3	-5	-10	-14	-14	-24	-27	-28	-30	-30	-30	-16	-9	-3	1	4	6	7	7	7	6	4	1	-3	-9	-16
KRE	684	SAMGO	0	-30	-30	-30	-28	-27	-24	-14	-14	-10	-5	-3	-5	-10	-14	-14	-24	-27	-28	-30	-30	-30	-16	-9	-3	1	4	6	7	7	7	6	4	1	-3	-9	-16

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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URS	684	NIKOLAEVSKAMUR	0	5	5	5	5	4	4	3	2	1	0	-2	-4	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-2	0	1	2	3	4	4	5	5	5	5	5	5
URS	684	TSELINOGRAD	0	5	5	5	5	5	4	4	4	3	2	1	0	-2	-3	-6	-6	-6	-6	-6	-6	-6	-6	-6	-3	-2	0	1	2	3	4	4	4	5	5	5	5
AUS	693	BRISBANE QLD	0	3	1	0	-9	-15	-11	-6	-4	-3	-3	-3	-5	-9	-15	-12	-4	0	2	3	4	4	4	3	1	0	-1	-2	-2	-2	-1	1	2	3	4	4	4
AUS	693	STREAKY BAY SA	0	-10	-12	-9	-7	-6	-6	-8	-12	-10	-5	-1	2	3	4	4	3	1	-3	-8	-12	-10	-8	-6	-6	-8	-11	-12	-5	-1	2	3	4	4	3	0	-3
G	693	BARROW	0	1	2	2	2	2	2	1	0	0	0	-1	-1	-2	-3	-4	-5	-6	-7	-8	-8	-8	-8	-8	-8	-8	-7	-6	-5	-4	-3	-2	-1	-1	0	0	0
G	693	POSTWICK	0	-1	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	-1	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2
G	693	START POINT	0	5	4	4	3	2	0	-3	-8	-13	-20	-13	-8	-6	-3	-2	-1	-1	-1	-2	-3	-6	-8	-13	-20	-13	-8	-3	0	2	3	4	4	5	5	5	5
IND	702	JULLUNDUR	0	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4
IRN	702	RASHT	0 1 2 3 4 5 6 7 8 9	3	0	-7	-13	-13	-13	-13	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-15	-16	-16	-16	-16	-16	-16	-16	-16	-16	-13	-13	-13	-13	-7	0	3	3 3 2 0 -3 -10 -16 -16 -16 -16
KRE	702	CHONGJIN	0	1	1	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-16	-17	-24	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2
MCO	702	MONTE CARLO	0	0	-4	-7	-15	-17	-17	-17	-17	-17	-17	-17	-17	-17	-12	-7	-4	0	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
OMA	702	MASIRAH 1	0	-4	-2	-1	0	1	2	3	3	3	3	3	3	3	2	1	0	-1	-2	-4	-5	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5
OMA	702	MASIRAH 2	0	-4	-5	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-4	-2	-1	0	1	2	3	3	3	3	3	3	3	2	1	0	-1	-2
PHL	702	VALENZUELA BUL	0	2	-2	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-2	2	2	2	2	2	2	-2	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-2	2	2	2	2	2
AUS	711	COOTAMUND NSW	0	-15	-15	-6	-2	0	1	2	3	3	3	3	3	3	2	2	1	-1	-5	-11	-20	-8	-3	-1	1	2	2	3	3	3	3	3	2	1	0	-2	-6
AUS	711	KELSO TAS	0	-20	-20	-18	-11	-6	-3	0	2	4	5	5	6	6	5	4	4	3	3	3	3	4	4	5	5	5	5	5	5	4	2	0	-3	-7	-18	-20	-20
AUS	711	S GEORGE QLD	0	7	6	5	4	2	-1	-5	-18	-18	-10	-6	-4	-2	-1	-1	-1	-2	-5	-8	-10	-10	-6	-2	1	3	4	5	6	6	7	7	7	7	7	7	7
IND	711	SILIGURI	0	-2	-3	-4	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1
ISR	711	EZYON	0	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9	-9
LBR	711	MONROVIA	0	2	3	3	3	3	3	3	2	2	1	1	0	-2	-4	-6	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-6	-4	-3	-1	1	1	2

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	MRC	711	TARFAYA	0	-6	-5	-4	-3	-2	-1	2	2	3	3	3	3	3	3	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	-1	-2	-3	-4	-5	-6
	PAK	711	MULTAN II	0	-6	-4	-3	-2	0	1	2	2	3	3	4	4	4	4	4	4	4	4	4	3	3	2	2	1	0	-2	-3	-4	-6	-8	-8	-10	-10	-6	-10	-8
	THA	711	UBON	0	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-1	-3	-5	-7	-10	-15	-15	-15	-15	-15	-15	-15	-10	-7	-5	-2
	URS	711	VLADIVOSTOK	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	-1	-3	-5	-7	-11	-11	-11	-11	-7	-5	-3	-1	1	3	3	3	3	3	3
	YEM	711	MOCHA	0	-10	-10	-10	-10	-10	-10	-7	-6	-5	-3	-1	0	2	3	4	5	5	5	5	5	5	5	4	3	2	0	-1	-3	-5	-6	-7	-10	-10	-10	-10	-10
	AUS	720	OMEO VIC	0	4	2	-2	-8	-17	-9	-5	-3	-3	-3	-5	-9	-17	-18	-2	2	4	5	5	4	2	-1	-5	-10	-17	-15	-14	-15	-17	-10	-5	-1	2	4	5	5
	CHN	720	BEIJING	0	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4
**	CYP	720	ZYYI	0	1	3	4	5	5	6	6	7	7	7	7	7	6	6	5	5	4	3	1	0	-2	-3	-5	-6	-7	-7	-8	-8	-8	-7	-7	-6	-5	-3	-2	0
	D	720	HOLZKIRCHEN	0	0	3	6	7	7	7	6	3	0	-5	-10	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-10	-5
	IND	720	MADRAS	0	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4
	IRN	720	TAYBAD	0	-1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-1	-4	-7	-10	-13	-16	-16	-16	-16	-16	-16	-15	-12	-8	-5	-2
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	IRN	720	TAYBAD	0	-1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-1	-4	-7	-10	-13	-16	-16	-16	-16	-16	-16	-15	-12	-8	-5	-2
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	KRE	720	WIWON	0	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-16	-17	-14	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1
	KRE	720	WIWON	0	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-16	-17	-14	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1
	S	720	KIRUNA	0	2	2	2	2	2	2	2	2	2	2	1	0	-2	-3	-5	-8	-8	-8	-8	-5	-3	-2	0	1	2	2	2	2	2	2	2	2	2	2	3	3

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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TUN	720	SFAX	0	-13	-13	-13	-13	-13	-13	-13	-13	-7	-5	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-5	-13	-13
URS	720	IUJNSAKHALINSK	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	3	2	-3	-7	-9	-13	-15	-20	-20	-20	-20	-20	-20	-15	-13	-9	-7	3	2	4	4
URS	720	KRASNOVODSK	0	4	4	4	5	5	5	5	5	4	3	2	0	-2	-5	-5	-11	-11	-11	-11	-11	-11	-11	-11	-5	-2	0	2	3	4	5	5	5	5	4	4
NCL	729	NOUMEA 2	0	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	3	2	0	-2	-5	-5	-8	-8	-8	-8	-8	-8	-8	-5	-5	-2	0	2	3
URS	729	ACHKHABAD	0	4	4	4	4	2	1	0	-1	-3	-4	-5	-6	-10	-10	-10	-10	-8	-6	-5	-4	-3	-2	0	1	2	3	3	4	4	4	4	4	4	4	4	4
* ALG	738	IN AMENAS	0	-7	-6	-6	-4	-3	-1	1	3	4	5	4	3	1	-1	-3	-4	-6	-6	-7	-7	-7	-7	-8	-8	-12	-13	-13	-13	-13	-13	-12	-8	-8	-7	-7	-7
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KRE	738	SINSANG	0	2	0	-2	-4	-7	-10	-11	-10	-7	-6	-5	-5	-5	-6	-7	-10	-11	-10	-7	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	3	3
POL	738	POZNAN	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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VTN	738	QUINHON	0	-2	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-2	-1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	2	1	0	-1
IRN	747	BANDAR SHAH	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-7	-11	-15	-15	-15	-15	-15	-15	-15	-15	-14	-11	-7	-5	-3	-2	0
NMB	747	RUNTU	0	-7	-7	-7	-7	-7	-7	-7	-6	-5	-3	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-3	-5	-6	-7	-7	-7	-7	-7	-7
SDN	747	PT SUDAN	0	-15	-15	-15	-15	-15	-15	-14	-12	-8	-5	-3	-1	0	1	2	3	3	4	4	4	4	4	4	4	3	3	2	1	0	-1	-3	-6	-9	-14	-15	-15
AUS	756	TAREE NSW	0	-1	2	3	4	3	2	0	-3	-6	-9	-10	-9	-7	-4	-1	1	3	4	4	3	0	-4	-14	-9	-3	0	1	2	2	2	1	0	-2	-6	-15	-7
AUS	756	WANGARATTA VIC	0	-8	-8	-9	-11	-16	-22	-15	-9	-5	-2	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	-1	-3	-6	-11	-19	-19	-13	-10
D	756	BRAUNSCHWEIG	0	3	3	3	2	2	1	0	-2	-4	-5	-6	-6	-6	-6	-6	-6	-6	-5	-4	-2	0	1	2	2	3	3	3	2	2	2	2	2	2	2	2	2

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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D	756	RAVENSBURG	0	2	1	1	0	-1	-2	-3	-5	-6	-6	-7	-6	-6	-5	-3	-2	-1	0	1	1	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2
I	756	BOLOGNA	0	-2	-2	-2	-2	-2	-2	-3	-4	-4	-4	-3	-2	-1	1	2	2	2	3	3	3	3	3	3	3	2	2	2	1	-1	-2	-3	-4	-4	-4	-3	-3
IND	756	JAGDALPUR	0	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4
IRQ	756	SALMAN PAK	0	3	1	-1	-3	-5	-6	-6	-6	-5	-3	-1	1	3	3	4	4	4	3	3	1	-1	-3	-5	-6	-6	-6	-5	-3	-1	1	3	3	4	4	4	3
ROU	756	LUGOJ	0	3	3	3	2	-1	-4	-10	-10	-10	-10	-10	-10	-10	-10	-10	-4	-1	2	3	3	3	2	-1	-4	-10	-10	-10	-10	-10	-10	-10	-10	-10	-4	-1	2
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THA	756	KRABI	0	2	3	4	5	5	5	5	5	4	3	2	1	-2	-5	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-5	-2	0
URS	756	URGHENTCH	0	4	4	4	4	3	3	2	2	1	0	-2	-3	-4	-6	-8	-10	-10	-10	-10	-8	-6	-4	-3	-2	0	1	2	2	3	3	4	4	4	4	4	4
ARS	765	DAMMAM	0	-8	-7	-7	-6	-3	0	3	3	4	5	5	5	5	5	5	5	4	3	3	0	-3	-6	-7	-7	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
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AUS	765	BEGA NSW	0	5	4	4	2	-1	-4	-9	-14	-19	-20	-19	-14	-9	-4	-1	2	4	4	5	4	4	2	-1	-4	-9	-14	-19	-20	-19	-14	-9	-4	-1	2	4	4
AUS	765	MORUYA NSW	0	3	3	3	3	1	-1	-3	-6	-10	-16	-10	-6	-3	-1	1	2	2	3	3	3	2	2	1	-1	-3	-6	-10	-16	-10	-6	-3	-1	1	2	2	3
IRL	765	ENNISCORTHY	0	2	1	0	-2	-4	-6	-10	-13	-13	-13	-14	-14	-14	-13	-13	-13	-10	-6	-4	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	4	4	3

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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IRN	765	CHAHBAHAR 2	0	-8	-7	-6	-5	-4	-4	-4	-4	-4	-5	-6	-8	-8	-5	-3	-1	1	2	3	3	3	4	4	4	4	4	3	3	2	2	1	0	-2	-4	-6	-8
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IRN	765	CHAHBAHAR 2	0	-20	-20	-20	-15	-7	-4	0	3	5	6	6	5	4	2	-3	-8	-15	-20	-20	-20	-20	-20	-20	-15	-10	-8	-7	-13	-13	-15	-20	-7	-6	-6	-8	-15
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J	765	KOFU	0	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-3	-3	-3	-3	-3	-3	-2
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J	765	TOKUYAMA	0	-3	-3	-3	-3	-3	-3	-2	-2	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	-1	-1	-2	-2	-3	-3	-3	-3
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KRE	765	HYESAN	0	3	2	0	-2	-4	-6	-7	-7	-7	-7	-7	-7	-8	-9	-9	-9	-8	-11	-11	-11	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3
KRE	765	HYESAN	0	3	2	0	-2	-4	-6	-7	-7	-7	-7	-7	-7	-8	-9	-9	-9	-8	-11	-11	-11	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3

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NZL	765	OPAPA	0	-1	1	1	2	3	2	1	1	-1	-3	-5	-6	-6	-6	-6	-6	-5	-3	-1	1	1	2	3	2	1	1	-1	-3	-5	-6	-6	-6	-6	-6	-3	-3
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TUR	765	SILIFKE	0	-20	-20	-13	-8	-2	1	3	4	3	1	-2	-8	-13	-20	-20	-20	-20	-20	-20	-20	-13	-8	-2	1	3	4	3	1	-2	-8	-13	-20	-20	-20	-20	-20
UKR	765	ODESSA	0	2	3	4	4	3	2	0	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	0	2	3	4	4	3	2	0	-2	-6	-6	-6	-6	-6	-6	-3	-2	0
URS	765	KIRENSK	0	4	4	4	4	4	4	3	3	2	2	2	2	1	-2	-5	-5	-5	-5	-5	-2	1	2	2	2	2	3	3	4	4	4	4	4	4	4	4	4
URS	765	TETIUKHE	0	4	4	3	3	2	2	1	0	-2	-8	-8	-8	-8	-8	-8	-8	-8	-8	-6	-6	-5	-3	-2	0	1	2	3	3	4	4	4	4	4	4	4	5
YUG	765	STON 2	0	0	0	-2	-3	-7	-20	-20	-6	-6	-3	-1	0	0	-1	-2	-6	-12	-25	-25	-25	-12	-6	-2	-1	0	0	-1	-3	-6	-6	-20	-20	-7	-3	-2	0
AUS	774	TOWNSVILLE QLD	0	-11	-7	-5	-6	-9	-17	-14	-4	0	3	5	6	6	5	4	1	-3	-8	-19	-20	-16	-17	-25	-12	-5	0	3	5	6	6	6	4	2	-2	-9	-26
EGY	774	ABIS	0	-9	-9	-9	-9	-3	-1	1	2	3	3	3	4	5	5	5	4	2	0	-2	-3	-6	-8	-9	-4	0	3	5	7	7	6	4	1	-2	-9	-9	-9
G	774	GLOUCESTER	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
S	774	STOCKHOLM	0	2	2	2	2	2	2	1	1	0	-1	-3	-6	-6	-3	-1	0	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2
YMS	774	MUKALLA	0	3	4	5	5	5	5	5	4	3	3	3	1	-1	-5	-10	-15	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-15	-10	-5	-1	1	3	3
CHN	783	BAODING	0	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-3
IND	783	MADRAS 2	0	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4
IND	783	SILIGURI	0	-3	-3	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-2	-2	-3
KRE	783	PYONGYANG	0	0	-3	-9	-11	-17	-17	-10	-1	0	0	0	-1	-4	-10	-22	-22	-23	-23	-11	-11	-11	-15	-15	-9	-3	0	1	3	4	4	4	4	4	4	3	1
KRE	783	PYONGYANG	0	0	-3	-9	-11	-17	-17	-10	-1	0	0	0	-1	-4	-10	-22	-22	-23	-23	-11	-11	-11	-15	-15	-9	-3	0	1	3	4	4	4	4	4	4	3	1
SDN	783	ATBARA	0	6	5	4	2	1	-7	-14	-14	-6	-4	-2	-3	-5	-8	-14	-14	-14	-14	-14	-11	-7	-4	-3	-3	-4	-8	-14	-14	-3	0	3	5	6	6	6	6

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SYR	783	TARTOUS	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-5	-2	1	2	3	5	6	6	6	6	6	6	6	5	3	2	1	-2	-5	-10
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URS	783	ACHKHABAD	0	3	3	3	3	3	3	2	1	0	-1	-3	-4	-6	-9	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-9	-6	-4	-3	-1	0	1	2	3	3
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URS	783	DJAMBUL	0	4	4	4	3	3	2	2	2	2	1	-2	-6	-6	-6	-6	-6	-2	1	2	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4
URS	783	SPASSK DALNII	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	2	2	2	1	-2	-6	-6	-6	-6	-6	-2	1	2	2	2	2	3	3	4
GRC	792	KAVALLA	0	6	7	7	6	5	4	2	0	-2	-3	-5	-5	-3	-2	0	2	4	5	6	7	7	6	5	4	2	0	-2	-3	-5	-3	-4	-2	0	2	4	5
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IND	792	POONA 2	0	-10	-10	-10	-10	-10	-8	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-8	-10	-10	-10	-10
BHR	801	BAHRAIN	0	-5	-3	-2	0	1	2	2	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-5	-6	-8	-9	-10	-11	-11	-12	-12	-12	-11	-11	-10	-9	-8	-6
D	801	MUENCHEN ISMAN	0	0	0	-1	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0
KRE	801	HWADAE	0	2	2	1	0	-2	-8	-18	-20	-20	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-29	-29	-18	-5	1	2	2	1	0	-2	-5	-9	-9	-5	-2	0	1
KRE	801	HWADAE	0	2	2	1	0	-2	-8	-18	-20	-20	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-29	-29	-18	-5	1	2	2	1	0	-2	-5	-9	-9	-5	-2	0	1
MRC	801	ALHOCEIMA	0	-10	-10	-10	-10	-10	-10	-8	-3	-1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	-1	-3	-8	-10	-10	-10	-10	-10

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	URS	801	DUCHANBE	0	2	3	4	5	5	5	5	5	4	4	4	3	3	2	0	0	-1	-2	-3	-7	-10	-13	-15	-15	-15	-15	-15	-15	-15	-13	-10	-7	-2	-1	0	0
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	ZAI	801	BUKAVU	0	2	2	2	1	0	-4	-6	-10	-10	-10	-10	-10	-10	-6	-4	0	1	2	2	2	2	1	0	-4	-6	-10	-10	-10	-10	-10	-10	-6	-4	0	1	2
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	AUS	810	MORUYA NSW	0	4	4	3	3	2	1	0	-3	-6	-11	-11	-6	-3	0	1	2	3	3	4	4	3	3	2	1	0	-3	-6	-11	-11	-6	-3	0	1	2	3	3
	G	810	CROWBOROUGH	0	-7	-6	-5	-3	0	1	1	1	2	2	2	3	3	3	3	3	3	2	2	2	1	1	1	0	-1	-1	-1	-2	-3	-6	-9	-10	-10	-9	-8	-7
	J	810	TOKYO	0	-23	-23	-23	-23	-23	-23	-23	-23	-10	-5	-3	-3	-2	0	1	2	3	3	3	3	3	3	3	3	2	1	0	-1	-2	-4	-6	-8	-10	-13	-15	-20
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	KRE	810	KAESONG	0	0	0	-5	-10	-10	-8	-5	0	0	-3	-5	-5	-8	-10	-14	-14	-10	-5	0	1	2	3	3	3	3	3	3	2	1	0	-5	-10	-14	-14	-10	-5
	AND	819	SUD RADIO	0	4	4	4	4	4	4	3	2	0	-2	-4	-6	-8	-8	-7	-5	-4	-3	-2	-2	-3	-3	-5	-6	-7	-8	-6	-4	-2	1	2	3	3	4	4	4
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ARS	819	DAMMAM	0	-8	-7	-7	-6	-3	0	3	3	4	5	5	5	5	5	5	5	4	3	3	0	-3	-6	-7	-7	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
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IND	819	DELHI	0	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2
IRN	819	FARAHABAD SARI	0	-16	-16	-16	-16	-10	-5	-3	0	1	2	1	-1	-10	-11	-16	-11	-4	-3	-2	-2	-2	-2	-4	-10	-16	-11	-10	-4	1	2	2	0	-2	-4	-9	-16
KRE	819	CHONGJIN	0	3	3	1	-1	-5	-10	-17	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-17	-10	-5	-1	1	3	3	3	4	5	5	5	5	5	4	3
KRE	819	CHONGJIN	0	3	3	1	-1	-5	-10	-17	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-17	-10	-5	-1	1	3	3	3	4	5	5	5	5	5	4	3
URS	819	KZYL ORDA	0	4	4	4	4	3	3	2	2	1	1	0	-1	-2	-3	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-2	0	1	2	3	3	3	4	4	4	4
URS	819	TETIUKHE	0	5	5	4	4	3	2	0	-2	-4	-8	-8	-8	-8	-8	-8	-8	-8	-8	-4	-2	0	2	3	4	4	5	5	5	4	4	4	4	4	5	5	5
* ZMB	819	LUSAKA	0	2	2	2	2	2	2	2	-4	-8	-4	-4	-2	-2	0	0	-4	0	0	-4	-4	-4	-4	-8	-4	-4	0	2	2	2	2	2	2	2	2	2	2
AUS	828	NAMBOUR QLD	0	4	4	2	-1	-5	-12	-15	-12	-11	-13	-15	-9	-3	0	3	4	4	3	1	-4	-13	-8	-2	0	2	2	2	2	1	-1	-4	-12	-9	-1	2	4
G	828	LUTON	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
LBY	828	SEBHA	0	-14	-5	0	1	2	3	3	4	4	5	5	5	5	5	5	5	5	5	4	4	3	3	2	1	0	-5	-14	-15	-24	-24	-24	-24	-24	-24	-24	-15
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SYR	828	DEIR 2	0	-16	-16	-16	-16	-16	-7	0	1	2	4	5	6	7	8	8	8	7	6	5	4	2	1	0	-7	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16
SYR	828	DEIR 2	0	-16	-16	-16	-16	-16	-7	0	1	2	4	5	6	7	8	8	8	7	6	5	4	2	1	0	-7	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16

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	URS	828	GORKII	0	3	4	4	4	4	4	4	4	4	3	2	1	0	-2	-4	-7	-10	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-10	-7	-4	-2	0	1	2
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	G	837	LEICESTER	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
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	TUR	837	EDIRNE	0	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-5	-2	0	2	3	4	5	5	5	5	5	4	3	2	0	-2	-5	-15	-15	-15	-15	-15	-15	-15	-15
*	YUG	837	NOVI SAD	0	-3	-1	1	2	3	3	3	2	2	2	0	0	0	0	0	2	2	2	3	3	3	2	1	-1	-3	-7	-12	-15	-15	-15	-15	-15	-15	-15	-12	-7
	AUS	846	CAIRNS QLD	0	-1	-4	-8	-15	-16	-10	-6	-4	-3	-3	-3	-4	-5	-7	-12	-18	-11	-6	-2	0	1	1	2	3	3	3	4	4	3	3	4	4	3	3	2	1
	PHL	846	MALOLOS BUL	0	4	3	2	1	-1	-3	-4	-5	-4	-3	-1	1	2	3	4	5	5	5	4	3	2	1	-1	-3	-4	-5	-4	-3	-1	1	2	3	4	5	5	5
	TUR	846	SIVAS	0	-20	-20	-20	-20	-15	-10	-8	-5	-2	0	2	3	5	3	2	0	-2	-5	-8	-10	-15	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
	ARS	855	DAMMAM	0	3	0	-3	-6	-7	-7	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-8	-7	-7	-6	-3	0	3	3	4	5	5	5	5	5	5	5	4	3
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	AUS	855	PIALBA QLD	0	1	0	-2	-5	-8	-11	-15	-17	-17	-17	-17	-15	-11	-8	-5	-2	0	1	2	3	4	4	4	5	5	5	5	5	5	5	5	4	4	4	3	2
	CHN	855	BUSHENG	0	1	1	1	1	1	1	1	1	0	-1	-2	-3	-5	-5	-5	-5	-5	-7	-7	-7	-7	-5	-5	-5	-5	-5	-3	-2	-1	0	1	1	1	1	1	1
	CHN	855	GEGYA	0	1	1	1	1	1	1	1	1	0	-1	-2	-3	-3	-3	-5	-6	-6	-6	-6	-6	-6	-6	-3	-3	-3	-3	-3	-2	-2	-1	0	1	1	1	1	1
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	NIG	855	PT HARCOURT	0	6	6	6	6	5	5	4	4	3	1	-1	-3	-6	-7	-7	-6	-5	-4	-4	-4	-5	-6	-7	-7	-5	-3	0	1	4	5	5	6	6	6	6	6
	SDN	855	SOBA	0	2	3	3	3	3	3	3	0	-2	-4	-6	-8	-10	-8	-6	-4	-2	0	3	3	3	3	3	3	2	1	0	-2	-4	-8	-10	-8	-4	-2	0	1
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	SYR	855	DAMAS 2	0	-20	-20	-20	-20	-20	-20	-20	-20	-10	-10	-5	-2	-1	2	3	3	4	4	5	5	5	5	5	5	5	4	4	3	2	-1	-2	-5	-10	-20	-20	-20
	ZMB	855	CHIPATA	0	-4	-8	-4	-4	-2	-2	0	0	0	0	0	-2	-2	-4	-4	-8	-4	-2	0	2	3	4	5	5	6	6	6	6	6	6	5	4	4	2	1	-2
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*	ARS	864	DAMMAM	0	-9	-9	-9	-7	-3	0	3	3	4	4	4	4	4	4	4	4	4	3	3	0	-3	-7	-9	-9	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
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	EGY	864	GIZA	0	-20	-20	-20	-20	-20	-20	-20	-18	-18	-18	-15	-12	-8	-3	0	2	4	5	6	6	6	6	6	6	5	4	2	0	-3	-8	-12	-15	-18	-18	-18

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
J	864	ASAHIKAWA	0	0	1	1	2	2	2	2	2	2	2	2	1	1	1	0	0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	0
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J	864	FUKUI	0	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-2	-1	0	1	1	2	2	2	3	3	3	3	2	2	1	1	0	-1	-2	-3	-4	-5	-6	-6
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J	864	MURORAN	0	1	1	1	1	1	1	0	0	0	0	-1	-2	-2	-3	-3	-3	-4	-4	-4	-4	-4	-4	-3	-3	-2	-2	-1	-1	0	0	0	0	1	1	1	1
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KOR	864	GANGNEUNG	0	-5	-9	-13	-14	-16	-16	-16	-16	-14	-12	-9	-5	-3	0	2	3	4	4	4	4	3	2	2	1	1	2	2	3	3	4	4	4	3	2	0	-2
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KRE	864	SHINUIJU	0	-24	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-16	-17
KRE	864	SHINUIJU	0	-24	-28	-30	-30	-30	-28	-24	-17	-16	-16	-18	-22	-17	-11	-7	-4	-1	0	0	1	1	2	1	1	0	0	-1	-4	-7	-11	-17	-22	-18	-16	-16	-17

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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MRC	864	KSAR ESSOUK	0	-6	-4	-3	0	1	3	4	4	4	4	4	4	4	4	4	4	2	2	4	4	4	4	3	1	-3	-3	-4	-6	-6	-6	-6	-6	-6	-6	-6	-6
URS	864	KARAGANDA	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	-1	-3	-5	-8	-11	-14	-15	-15	-15	-15	-15	-15	-15	-15	-15	-14	-11	-8	-5	-3	-1
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D	873	FRANKFURT MAIN	0	-4	-10	-15	-15	-15	-20	-20	-20	-15	-15	-15	-10	-4	0	3	4	5	5	4	2	0	-2	-5	-6	-6	-6	-4	-2	0	2	4	5	5	4	3	0
G	873	KINGS LYNN	0	-1	-1	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	-1	-1	-2	-2	-3	-3	-4	-4	-5	-6	-6	-6	-5	-4	-4	-3	-3	-2	-2
* MOZ	873	BEIRA	0	-10	-13	-15	-15	-16	-16	-16	-16	-15	-10	-7	-4	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-4	-7
SDN	873	BURAM	0	-6	-5	-3	-3	-6	-8	-12	-12	-2	2	4	5	6	6	6	6	6	5	3	0	-6	-13	-8	-6	-4	-3	-4	-6	-11	-22	-22	-22	-22	-22	-22	-22
URS	873	KICHINIOV	0	5	5	5	5	5	4	4	3	3	2	1	0	-3	-5	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-3	0	1	2	3	3	4	4
VTN	873	SAIGON	0	4	4	4	4	6	6	6	5	5	4	3	2	1	0	-1	1	2	3	3	4	4	4	5	5	4	4	3	2	2	0	0	0	1	2	3	4
AUS	882	BRISBANE QLD	0	-5	-9	-13	-12	-10	-8	-7	-6	-6	-7	-9	-13	-13	-14	-9	-5	-4	0	1	2	3	3	4	4	4	4	4	4	4	4	4	3	2	1	0	-3
AUS	882	WARRNAMBOOL VC	0	-7	-6	-5	-6	-8	-9	-7	-4	-1	1	3	4	4	3	2	1	-1	-2	-4	-5	-6	-5	-4	-3	0	1	2	3	4	3	2	0	-2	-5	-8	-8
DDR	882	WACHENBRUNN	0	-1	1	2	3	3	2	1	-1	-3	-7	-12	-16	-19	-19	-19	-16	-12	-7	-3	-1	1	2	3	3	2	1	-1	-4	-6	-8	-8	-8	-8	-8	-6	-4
G	882	WASHFORD	0	3	3	2	2	1	1	1	0	0	-1	-2	-3	-3	-2	-1	-2	-2	-3	-3	-3	-2	-2	-1	-1	-1	-1	-1	-1	0	0	1	1	1	2	2	3
KRE	882	WONSAN	0	-17	-10	-4	0	1	2	3	2	1	0	-4	-15	-17	-17	-10	-4	-4	-10	-17	-17	-10	-4	0	1	2	3	3	3	3	3	2	1	0	-4	-10	-17
KRE	882	WONSAN	0	-17	-10	-4	0	1	2	3	2	1	0	-4	-15	-17	-17	-10	-4	-4	-10	-17	-17	-10	-4	0	1	2	3	3	3	3	3	2	1	0	-4	-10	-17
NMB	882	OHOPOHO	0	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-5	-3	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-3	-5	-6
URS	882	NALTCHIK	0	5	5	5	5	5	5	5	5	5	5	4	2	0	-2	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-2	0	2	4	5
CHN	891	DANDONG	0	2	1	1	1	0	0	0	0	0	-2	-4	-6	-8	-10	-10	-10	-10	-10	-8	-6	-4	-2	0	0	0	0	0	1	1	1	2	2	2	2	2	2
TUR	891	ANTALYA	0	5	5	5	4	4	4	3	3	2	1	0	-1	-3	-5	-7	-12	-15	-15	-15	-15	-15	-12	-7	-5	-3	-1	0	1	2	3	3	4	4	4	5	5

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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ARS	900	GURIAT	0	2	-5	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-1	3	5	6	6	6	5
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CHN	900	SHUANGYASHAN	0	0	0	0	-1	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0
I	900	MILANO	0	2	2	2	2	2	2	2	2	2	2	-3	-3	-3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
J	900	HAKODATE	0	0	1	1	1	1	1	1	1	1	0	0	0	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-1	-1	0	0
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J	900	KOCHI	0	-6	-5	-4	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-4	-4	-5	-6	-6	-4	-3	-2	-1	-1	0	0	0	0	0	0	-1	-1	-2	-3	-4	-5
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			9										-30																	-30								
J	900	YONAGO	0	-6	-8	-7	-5	-4	-3	-2	-1	0	0	0	-1	-2	-3	-4	-5	-7	-8	-6	-4	-2	0	1	2	2	3	3	3	3	3	3	2	1	0	-2	-4
CHN	909	KASHI	0	0	0	0	0	0	0	0	0	0	0	1	1	0	-1	-1	-1	-1	-2	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-2	0	0
D	909	DILLBERG	0	9	9	7	5	9	9	9	9	1	-1	-15	-15	-15	-5	0	1	0	2	3	3	3	3	2	0	-1	0	-1	-8	-15	-18	-18	-18	-18	-12	-5	5
G	909	CLEVEDON	0	-1	-2	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-2	-1	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0
G	909	MOORSIDE EDGE	0	3	3	3	3	3	2	1	0	-1	-2	-2	-2	-2	-2	-1	-1	0	0	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2
SDN	909	YAMBIO	0	0	0	1	2	3	3	4	4	3	2	-1	-8	-12	-12	-12	-12	-12	-12	-12	-6	-2	1	3	4	4	3	3	2	1	0	0	0	0	0	0	0

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	URS	909	IMAN	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	2	2	2	1	-2	-6	-6	-6	-6	-6	-2	1	2	2	2	3	3	4
	YEM	909	TAIZ 2	0	-3	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-6	-9	-11	-15	-15	-15	-15	-15	-15	-15	-11	-9	-6
	AUS	918	CHARLEVIL QLD	0	5	5	5	5	5	5	5	5	4	3	2	1	-1	-4	-6	-12	-15	-15	-15	-8	-4	-2	0	2	3	4	4	5	5	5	5	5	5	5	5	5
	IND	918	SURATGARH	0	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-5	-6	-7	-8	-7	-6	-5	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1
	J	918	YAMAGATA	0	1	1	1	1	1	0	0	0	-1	-1	-2	-2	-3	-3	-3	-2	-2	-2	-2	-2	-2	-2	-3	-3	-3	-2	-2	-1	-1	0	0	0	1	1	1	1
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	PHL	918	MALOLOS BUL	0	2	-1	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-1	2	3	3	3	3	2	-1	-5	-9	-10	-10	-10	-10	-10	-10	-9	-5	-1	2	3	3	3	3
	URS	918	SRETENSK	0	4	4	4	4	4	4	4	4	3	3	2	2	2	2	1	-2	-6	-6	-6	-6	-6	-2	1	2	2	2	2	3	3	4	4	4	4	4	4	4
**	ARS	927	GURIAT	0	5	4	3	1	0	-2	-4	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-4	-2	0	1	3	4	5	5	5	6	6	6	6	6	6	5	5
	AUS	927	GLADSTONE QLD	0	-4	-10	-11	-7	-4	-1	1	2	3	3	4	4	4	3	3	1	0	-2	-6	-12	-13	-8	-5	-2	0	2	2	3	3	4	4	3	3	2	1	-1
	GRC	927	ZAKYNTHOS	0	-6	-4	-3	-2	-1	0	1	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-3	-4	-5	-6	-7	-9	-10	-10	-10	-10	-10	-9	-8	-8	-7
	IND	927	VIZAGAPATAM	0	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4	-3
	J	927	FUKUI	0	-6	-6	-5	-4	-3	-3	-3	-4	-5	-6	-6	-7	-7	-6	-5	-4	-3	-1	0	1	1	2	2	2	2	2	2	1	0	-1	-2	-4	-5	-6	-6	-7
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J	927	KOFU	0	-2	-1	0	0	1	1	2	2	2	2	2	2	2	2	2	1	1	1	0	-1	-1	-2	-3	-3	-4	-5	-5	-6	-6	-6	-6	-5	-4	-4	-3	-2
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KRE	927	HWANGJU	0	2	1	-3	-7	-13	-19	-16	-14	-10	-10	-14	-14	-15	-15	-14	-16	-19	-13	-7	-3	1	2	3	3	3	2	1	1	0	0	1	1	2	3	3	3
TUR	927	IZMIR	0	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	0	-1	-3	-5	-7	-8	-8	-8	-8	-6	-5	-3	-1	1	2	3	4
AUS	936	AYR QLD	0	-13	-11	-11	-12	-12	-7	-2	2	4	6	6	6	5	2	-2	-10	-9	-4	1	0	0	0	-2	-5	-12	-7	0	3	5	6	6	5	3	1	-3	-9
AUS	936	HOBART TAS	0	3	3	2	0	-1	-2	-4	-5	-7	-7	-7	-5	-5	-3	-1	0	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
CHN	936	SU XIAN	0	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2
D	936	BREMEN	0	1	0	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	0	0	1	2	2	3	3	4	4	4	4	4	3	3	2	2	1
* MOZ	936	BEIRA	0	-3	0	2	3	4	4	3	2	0	-2	-4	-8	-10	-10	-10	-8	-4	-2	0	2	3	4	4	3	2	0	-3	-6	-13	-17	-17	-17	-17	-17	-13	-6
MRC	936	AGADIR	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	-2	-10	-10	-10	-10	-10	-10	-10	-10	-8	-4	-2	0
THA	936	NAKHON SAWAN	0	5	4	3	2	1	-2	-5	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-5	-2	0	2	3	4	5	5	5	5
UKR	936	LVOV	0	5	5	5	5	5	4	4	3	3	2	1	0	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	0	1	2	3	3	4	4
URS	936	FT CHEVTCHENKO	0	5	5	5	5	5	5	5	4	3	2	0	0	-1	-2	-3	-7	-10	-13	-15	-15	-15	-15	-15	-15	-15	-13	-10	-7	-2	-1	0	0	2	3	4	5
ARS	945	GURIAT	0	-12	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-12	-10	-10	-5	-3	1	3	5	6	6	6	5	3	1	-3	-5	-10	-10
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CHN	945	URUMQI SHI	0	-4	-4	-3	-2	-2	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-2	-3	-4	-4	-4	-4	-4	-4	-4

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J	945	MURORAN	0	2	2	2	2	2	2	2	2	2	1	1	0	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	0	0	0	1	1	1	2	2
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J	945	TOKUSHIMA	0	-7	-6	-5	-4	-4	-3	-3	-3	-3	-3	-4	-4	-5	-6	-7	-7	-6	-5	-3	-2	0	1	1	2	2	2	2	2	1	1	0	-2	-3	-5	-6	-7
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URS	945	PAVLODAR	0	4	4	4	3	3	2	2	2	2	1	-2	-6	-10	-10	-10	-10	-10	-6	-2	1	2	2	2	2	3	3	4	4	4	4	4	4	4	4	4	4
URS	945	ROSTOV NA DONU	0	1	2	3	3	3	3	3	3	3	3	3	2	1	-1	-3	-5	-7	-10	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-10	-7	-5	-3	-1
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IND	954	NAJIBABAD	0	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1
* QAT	954	AL ARISH	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-3	2	6	7	8	7	5	-3	-4	-8	-10	-10
URS	954	ARALSK	0	4	4	4	5	4	4	4	4	3	3	2	1	0	-2	-4	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-4	-2	0	1	2	2	3	3	4
AUS	963	GRIFFITH NSW	0	1	0	-2	-7	-17	-7	-2	-1	2	2	1	0	-1	-2	-2	-2	-1	0	1	2	2	1	-1	-6	-16	-9	-3	0	1	2	2	2	2	2	2	2
AUS	963	WARWICK QLD	0	3	4	4	2	-1	-12	-8	-1	2	4	4	4	3	3	3	3	4	4	4	2	-1	-8	-12	-1	2	4	4	3	1	-1	-3	-4	-4	-3	-1	1
CHN	963	AKSU	0	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2
CHN	963	YECHENG	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-4	-6	-9	-13	-13	-13	-13	-13	-13	-13	-9	-6	-3	-2	0

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G	963	BLACKBURN	0	-2	-2	-2	-1	-1	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-3	-4	-6	-7	-8	-9	-9	-9	-9	-9	-8	-7	-6	-4	-3	-2
IND	963	JALGAON	0	-3	-3	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-2	-2	-3
J	963	AOMORI	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	0	0	-1	-1	-1	-1	-1	-1	-1	0	0	1	1	1	2	2	2	2	2
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J	963	MATSUYAMA	0	-3	-4	-4	-5	-6	-5	-4	-4	-2	-1	0	1	1	1	2	2	2	2	2	1	1	1	0	-1	-3	-4	-4	-5	-5	-4	-4	-3	-3	-3	-3	-3
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SOM	963	MOGADISCIO	0	4	3	2	1	0	-1	-3	-5	-7	-8	-9	-9	-10	-10	-10	-10	-10	-9	-9	-8	-7	-5	-3	-1	0	1	2	3	4	5	5	5	5	5	5	5
URS	963	KULIAB	0	5	5	5	5	5	5	4	4	3	2	-1	-1	-2	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3	-1	1	2	3	4	4	4	5	5	5	5
URS	963	ULAN UDE	0	3	3	3	2	2	1	0	-1	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3
YUG	963	UZICKA POZEGA	0	-10	-8	-5	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	2	2	1	0	-1	-2	-3	-5	-8	-10	-15	-15	-15	-15	-15	-15	-15	-15	-15
AUS	972	MURWILLUMB NSW	0	4	3	3	1	-3	-17	-5	2	4	4	2	-5	-16	-2	2	3	4	4	4	4	4	3	0	-5	-16	-1	3	4	3	0	-11	-9	-1	2	3	3
D	972	HAMBURG	0	2	1	1	0	-1	-3	-6	-7	-8	-8	-8	-7	-5	-3	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
GUI	972	BOKE	0	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-6	-5	-5	-4	-3	-2	-1	0	1	1	2
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KOR	972	KIMJAE	0	2	3	3	3	3	2	2	2	2	1	2	2	2	3	3	3	3	2	1	0	4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-6	-3	0	2
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UKR	972	NIKOLAEV	0	-7	-7	-7	-7	-3	-2	0	1	2	3	5	5	3	2	2	2	2	2	3	5	5	3	2	1	0	-2	-3	-7	-7	-7	-7	-7	-7	-7	-7	-7
CHN	981	HOTAN	0	-7	-6	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-6	-7	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-9
CHN	981	KASHI	0	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-3	-5	-7	-10	-14	-14	-14	-14	-14	-14	-14	-10	-7	-5	-3	-1
IND	981	RAIPUR	0	-6	-7	-7	-7	-5	-4	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4
KRE	981	PYONGYANG	0	-24	-24	-25	-25	-23	-10	-4	0	1	3	4	4	4	3	1	0	-4	-10	-20	-24	-24	-24	-24	-24	-24	-24	-28	-30	-30	-30	-30	-30	-30	-28	-28	-28
KRE	981	PYONGYANG	0	-24	-24	-25	-25	-23	-10	-4	0	1	3	4	4	4	3	1	0	-4	-10	-20	-24	-24	-24	-24	-24	-24	-24	-28	-30	-30	-30	-30	-30	-30	-28	-28	-28
URS	981	KRASNOIARSK	0	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	1	-4	-4	-5	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-5	-1	3	4	5	5	4
ARS	990	GURIAT	0	2	-5	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-1	3	5	6	6	6	5
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AUS	990	BURNIE TAS	0	-6	-11	-18	-21	-17	-16	-17	-21	-18	-11	-6	-3	0	2	3	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	3	2	0	-3
D	990	HOF SAALE	0	6	6	6	6	6	6	6	5	5	4	2	0	-4	-9	-14	-4	-1	1	1	2	2	1	0	-2	-9	-14	-11	-4	0	2	3	4	5	5	6	6
			1			6																																	
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																												
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
AUS	999	BROKEN HLL NSW	0	4	4	4	4	3	2	1	-1	-4	-8	-10	-10	-6	-2	0	2	3	3	4	4	4	4	3	2	1	-1	-4	-10	-10	-10	-6	-2	0	2	3	3
AUS	999	NOWRA NSW	0	2	-1	-7	-10	-9	-4	-2	-1	-1	-3	-6	-10	-10	-4	1	3	5	5	4	2	-2	-7	-10	-10	-8	-7	-7	-10	-10	-10	-3	1	3	5	5	4
CHN	999	HENGCHUN	0	3	3	3	2	1	0	-1	-2	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-2	-1	0	1	2	3	3
CHN	999	TAXKORGAN	0	1	1	0	1	1	0	0	0	0	0	1	1	0	-1	-1	-1	-1	-2	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-2	-2	1	1
CHN	999	URUMQI SHI	0	-7	-6	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-6	-7	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-9
G	999	NOTTINGHAM	0	-8	-5	-4	-3	-2	-1	0	0	0	0	0	0	0	0	0	-1	-2	-2	-3	-4	-5	-8	-15	-17	-20	-25	-25	-20	-20	-22	-25	-25	-25	-20	-15	-12
KRE	999	HAMHEUNG	0	-15	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-15	-10	-8	-5	-2	0	2	3	5	3	2	0	-2	-5	-8	-10
KRE	999	HAMHEUNG	0	-15	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-15	-10	-8	-5	-2	0	2	3	5	3	2	0	-2	-5	-8	-10
MLT	999	DELIMARA	0 1 2 3 4 5 6 7 8 9	6	5	4	2	-2	-8	-15	-18	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-18	-15	-4	0	3	4	5	6	7 5 3 1 -2 -4 -6 -8 -8 -8	7
YEM	999	HODEIDAH	0	-6	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-6	-2	2	4	5	6	7	7	7	6	5	4	2	-2
AUS	1008	IPSWICH QLD	0	3	4	3	2	-1	-6	-12	-12	-10	-10	-11	-13	-8	-3	1	3	4	3	2	-2	-11	-7	-1	1	3	3	3	3	3	3	2	0	-4	-13	-5	0
AUS	1008	LAUNCESTON TAS	0	-8	-16	-19	-12	-9	-8	-8	-10	-14	-22	-12	-6	-2	1	2	3	4	4	4	3	2	2	1	1	1	1	2	3	3	4	4	4	3	2	0	-3
BLR	1008	MOZYR	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-5	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-5	-1	3	4	5	5
BLR	1008	SLONIM	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-5	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-5	-1	3	4	5	5
BLR	1008	SLONIM	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-5	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-5	-1	3	4	5	5
BLR	1008	UCHATCHI	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-5	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-5	-1	3	4	5	5
GRC	1008	KERKYRA	0	-9	-8	-7	-5	-4	-3	-1	0	0	1	1	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-4	-5	-7	-8	-8	-10	-10	-10	-10	-10	-10

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																																	
					00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	KOR	1008	SOGCHO	0	1	-2	-7	-12	-15	-15	-15	-15	-15	-15	-15	-12	-9	-7	-1	1	3	3	4	4	4	4	3	3	2	2	3	3	3	4	4	4	4	3	3
				1		-2													-1				4													4				
				2		-3													-2				3													3				
				3		-4													-4				2													2				
				4		-5													-6				0													0				
				5		-6													-7				-4													-4				
				6		-10													-10				-7													-7				
				7		-15													-15				-12													-12				
				8		-15													-15				-15													-15				
				9		-15													-15				-15													-15				
*	MOZ	1008	LOUREN MARQUES	0	1	1	1	1	1	1	1	1	0	-3	-12	-14	-8	-4	-3	-3	-3	-4	-6	-6	-7	-7	-5	-5	-4	-3	-3	-5	-8	-14	-14	-5	0	1	1	1
	PHL	1008	ZAMBOANGA CY 1	0	-10	-10	-10	-10	-6	-3	0	2	3	3	3	2	0	-3	-6	-10	-10	-10	-10	-10	-10	-10	-6	-3	0	2	3	3	3	2	0	-3	-6	-10	-10	-10
	YUG	1008	ALEKSINAC	0	-10	-8	-5	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	2	2	1	0	-1	-2	-3	-5	-8	-10	-15	-15	-15	-15	-15	-15	-15	-15	-15
	CHN	1017	MEI XIAN	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-2	-3
	AUT	1026	GRAZ DOBL	0	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	AUT	1026	LINZ KRONSTORF	0	1	1	1	1	1	1	1	1	1	1	1	-2	-2	-2	-2	-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	BLR	1026	BREST	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-7	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-7	-1	3	4	5	5
	BLR	1026	GRODNO	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-7	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-7	-1	3	4	5	5
	BLR	1026	PINSK	0	4	3	2	2	2	2	2	2	3	5	5	5	5	4	3	2	-1	-4	-4	-7	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-7	-1	3	4	5	5
	G	1026	BELFAST	0	0	0	-1	-2	-4	-5	-7	-10	-14	-15	-15	-15	-15	-15	-15	-15	-12	-9	-7	-5	-3	-2	-1	0	0	1	1	1	1	1	1	1	1	1	1	1
* *	ISR	1026	TEL AVIV 1	0	-3	-2	-2	-1	-1	0	0	1	1	2	2	2	2	2	2	2	2	2	2	1	1	0	0	-1	-1	-2	-2	-3	-3	-4	-4	-4	-4	-4	-4	-3
	EGY	1035	MATRUH	0	-15	-15	-15	-15	-15	-10	-5	-2	0	2	3	2	0	-2	-6	-10	-15	-15	-15	-15	-15	-10	-6	-1	3	5	8	8	3	-1	-6	-10	-13	-15	-15	-15
	G	1035	ABERDEEN	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
	G	1035	AYR	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	YEM	1035	SANAA 3	0	2	-1	-4	-10	-24	-24	-24	-24	-24	-10	-4	-1	2	3	4	5	4	3	2	-1	-4	-10	-24	-24	-24	-24	-24	-10	-4	-1	2	3	4	5	4	3
	AUS	1044	MUSWELLBRK NSW	0	6	6	6	6	6	6	6	6	5	4	3	1	-2	-6	-10	-10	-5	-2	0	1	1	1	1	0	-2	-6	-10	-8	-3	0	2	4	5	6	6	6
	GRC	1044	THESSALONIKI	0	-5	-4	-2	-1	0	2	2	3	3	2	2	0	-1	-2	-4	-5	-6	-6	-5	-4	-2	-1	0	2	2	3	3	2	2	0	-1	-2	-4	-5	-6	-6
*	MOZ	1044	BEIRA	0	0	0	0	0	0	0	0	0	-1	-3	-6	-5	-8	-15	-17	-17	-17	-17	-17	-15	-8	-5	-6	-3	-1	0	0	0	0	0	0	0	0	0	0	0
	TUR	1044	KAHRAMANMARAS	0	-17	-17	-14	-14	-14	-14	-14	-17	-17	-17	-17	-12	-7	-2	0	2	3	3	2	1	0	0	-1	-1	-1	0	0	1	-2	-2	3	2	0	-2	-7	-12

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
AUS	1053	CANBERRA ACT	0	0	-3	-7	-14	-12	-7	-4	-3	-2	-3	-4	-6	-10	-15	-6	-2	1	3	3	3	2	0	-2	-5	-7	-9	-9	-8	-6	-3	-1	1	2	3	3	2
G	1053	DROITWICH	0	4	4	5	5	5	5	5	4	4	3	2	1	0	-1	-1	-2	-2	-3	-4	-5	-5	-5	-4	-4	-4	-4	-5	-5	-5	-4	-3	-2	0	1	2	3
G	1053	POSTWICK	0	-1	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	-1	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2
G	1053	START POINT	0	4	4	4	4	3	3	2	1	-1	-3	-5	-6	-7	-8	-7	-6	-5	-6	-7	-8	-7	-6	-5	-3	-1	1	2	3	3	4	4	4	4	4	4	4
IND	1053	LEH	0	1	0	-1	-3	-4	-5	-6	-7	-7	-7	-6	-5	-4	-3	-1	0	1	2	1	0	-1	-3	-4	-5	-6	-7	-7	-7	-6	-5	-4	-3	-1	0	1	2
IND	1053	LEH	0	1	0	-1	-3	-4	-5	-6	-7	-7	-7	-6	-5	-4	-3	-1	0	1	2	1	0	-1	-3	-4	-5	-6	-7	-7	-7	-6	-5	-4	-3	-1	0	1	2
LBY	1053	TRIPOLI KM8	0	-20	-20	-20	-20	-7	-3	0	1	2	3	4	5	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	0	-3	-7	-20	-20	-20
MRC	1053	TANGER	0	-10	-10	-10	-10	-10	-7	-3	-1	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	-1	-3	-7	-10	-10	-10	-10
ROU	1053	IASI	0	0	-2	-3	-4	-7	-9	-11	-15	-11	-9	-7	-4	-3	-2	0	2	2	2	0	-2	-3	-4	-7	-9	-11	-15	-11	-9	-7	-4	-3	-2	0	2	2	2
URS	1053	SVOBODNYI	0	3	3	3	3	3	3	2	1	0	-1	-3	-5	-6	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-5	-3	-1	0	1	2	3	3	3	3	3
AUS	1062	SYDNEY NSW	0	-10	-3	1	3	5	5	5	4	3	2	1	0	0	0	0	1	2	3	4	5	5	5	4	2	-2	-7	-20	-10	-5	-3	-2	-2	-2	-4	-8	-16
I	1062	ANCONA	0	-4	-4	-4	-3	-3	-2	-1	0	0	0	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1	0	0	-1	-1	-2	-3	-3	-4	-4
IND	1062	PASIGHAT 2	0	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-2	-2	-3	-4	-3	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	1	2	1
URS	1062	ANDIJAN	0	3	3	3	3	2	2	2	1	1	0	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	0	1	1	2	2	2	3	3	3	3	3
AUS	1071	MARYBOROUGH VC	0	0	-3	-11	-10	-2	1	3	3	2	0	-2	-4	-7	-8	-7	-5	-3	0	2	3	3	2	0	-6	-16	-5	-1	2	2	3	3	3	3	3	3	2
F	1071	MONTPELLIER	0	5	5	4	3	3	2	0	-2	-5	-9	-15	-16	-16	-16	-16	-16	-16	-16	-16	-15	-12	-5	-2	0	1	3	4	4	5	5	5	5	5	5	5	5
KRE	1071	CHOLWON	0	-6	1	3	4	4	5	5	4	4	3	1	-6	-13	-24	-24	-13	-13	-13	-13	-13	-13	-6	-3	-3	-3	-3	-6	-14	-14	-13	-13	-15	-15	-24	-24	-13
URS	1071	USTKAMENOGORSK	0	3	3	3	3	4	5	5	5	4	3	2	-1	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-1	2	3	4	5	5	5	4	3	3	3
CLN	1080	KOTUGODA	0	-10	-2	2	3	3	3	2	-2	-10	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
IRN	1080	ABADAN	0	-11	-13	-14	-14	-14	-14	-14	-13	-10	-6	-11	-13	-14	-14	-14	-14	-14	-13	-11	-10	-6	-6	-6	-1	2	5	6	6	6	5	2	-1	-6	-6	-6	-8
			1																										5									
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
KEN	1080	MOMBASA	0	3	3	3	2	2	0	-2	-3	-4	-6	-8	-8	-10	-10	-10	-8	-6	-5	-4	-3	-2	0	2	2	3	3	3	3	3	3	3	3	3	3	3	3
KRE	1080	ONGJIN	0	-3	1	4	6	7	7	7	6	4	1	-3	-9	-16	-30	-30	-30	-28	-27	-24	-14	-8	-5	-3	-3	-3	-5	-8	-14	-24	-27	-28	-30	-30	-30	-16	-9
KRE	1080	ONGJIN	0	-3	1	4	6	7	7	7	6	4	1	-3	-9	-16	-30	-30	-30	-28	-27	-24	-14	-8	-5	-3	-3	-3	-5	-8	-14	-24	-27	-28	-30	-30	-30	-16	-9
YUG	1080	BELI KRIZ 1	0	-7	-11	-15	-15	-15	-15	-15	-15	-15	-15	-12	-10	-8	-7	-6	-5	-5	-3	-3	-2	-2	1	1	0	2	3	3	5	2	0	1	1	-2	-2	-3	-3
			1																									2										
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			7																									-20										
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			9																									-20										
AUS	1089	ORANGE NSW	0	3	3	2	-1	-8	-14	-3	1	3	3	3	3	2	1	1	1	2	3	3	3	3	2	-1	-8	-14	-3	1	3	3	3	3	3	3	3	3	3
G	1089	BROOKMANS PARK	0	-6	-8	-11	-16	-14	-8	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3	2	1	0	-3	-6	-11	-16	-14	-10	-7	-5	-4	-4	-5
G	1089	MOORSIDE EDGE	0	-2	0	2	3	3	4	4	4	4	3	2	1	0	-3	-7	-16	-15	-6	-2	0	1	2	3	4	4	4	4	3	2	1	0	-3	-7	-16	-16	-6
G	1089	WESTERGLEN	0	-2	0	2	3	3	4	4	4	4	3	2	1	0	-3	-7	-16	-15	-6	-2	0	1	2	3	4	4	4	4	3	2	1	0	-3	-7	-16	-16	-6
IRN	1098	ZABOL	0	-1	0	0	1	2	2	2	2	2	2	2	2	2	2	1	1	1	0	-1	-3	-5	-9	-12	-15	-15	-15	-15	-15	-15	-15	-15	-15	-12	-7	-5	-3
KOR	1098	CHINJU	0	-1	-1	-1	-2	-2	-3	-4	-5	-5	-6	-6	-7	-7	-8	-8	-8	-8	-7	-7	-7	-6	-6	-5	-5	-4	-3	-2	-2	-1	-1	-1	0	0	0	0	0
NCL	1098	TIEBAGHI 2	0	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	0	-3	-6	-10	-10	-10	-10	-10	-10	-10	-10	-10	-6	-3	0	1	2	3	4	4
AFG	1107	KABOUL	0	-2	-4	-5	-6	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-6	-5	-4	-2	0	1	2	3	3	3	3	3	3	3	3	3	3	3	2	1	0
			1										-7																	3									
			2										-10																	1									
			3										-10																	-3									
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			7										-12																	-12									
			8										-12																	-12									
			9										-12																	-12									
BLR	1107	MOGHILEV	0	4	3	3	3	3	3	3	4	4	5	5	5	4	3	2	-1	-3	-7	-10	-10	-10	-10	-10	-10	-10	-10	-7	-3	-1	2	3	4	5	5	5	4
CHN	1107	HUNJIANG	0	0	0	-1	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0
EGY	1107	BATRA	0	-1	0	1	2	3	4	5	6	7	7	7	7	7	6	5	4	3	2	1	-1	-2	-4	-5	-6	-6	-6	-5	-4	-4	-5	-6	-6	-6	-5	-4	-2

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
G	1107	BRISTOL	0	-20	-20	-16	-13	-11	-11	-13	-15	-20	-20	-20	-13	-8	-5	-3	-2	-1	0	2	3	4	4	4	4	4	4	3	2	0	-1	-2	-3	-5	-8	-12	-20
G	1107	INVERNESS	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
J	1107	KAGOSHIMA	0	-17	-17	-17	-15	-13	-13	-15	-17	-17	-17	-12	-8	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-8	-12
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			2																					2													
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			7																					-9													
			8																					-14													
			9																					-15													
J	1107	KANAZAWA	0	2	3	3	3	3	3	2	2	1	1	0	-1	-2	-3	-4	-5	-6	-6	-7	-7	-7	-7	-7	-7	-7	-7	-6	-4	-4	-3	-2	-1	0	1	1	2
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URS	1107	KAUNAS	0	3	3	3	4	4	5	5	5	4	3	2	-1	-3	-7	-10	-10	-10	-10	-10	-10	-10	-10	-7	-3	-1	2	3	4	5	5	5	4	4	3	3	3
YUG	1107	NOVI SAD	0	-10	-10	-10	-10	-10	-10	-10	-9	-7	-3	-1	1	2	3	3	3	2	2	2	1	1	1	1	1	2	2	2	3	3	3	2	1	-1	-3	-7	-9
AUS	1116	BRISBANE QLD	0	3	5	5	5	5	4	3	2	2	1	2	3	3	4	5	5	5	4	2	-1	-6	-15	-8	-3	-1	1	1	1	1	0	-2	-5	-12	-9	2	1
CLN	1116	PERKARA	0	3	3	2	1	0	-1	-2	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-2	-1	0	1	2	3	3	3
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			6																																			-15
			7																																			-15
			8																																			-15
			9																																			-15
G	1116	DERBY	0	1	1	0	0	0	0	0	0	-1	-1	-1	-1	-2	-2	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	-1	-1	0	0	0	0	0	0	1	1	1
J	1116	MATSUYAMA	0	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-3	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	0	0	-1	-2	-3	-3	-4	-5

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																																	
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
J	1116	NIIGATA	0	3	4	5	5	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	0	-2	-3	-3	-3	-3	-2	-2	-2	-3	-3	-3	-2	0	1	2
			1										5																									
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			8										-15																									
			9										-15																									
KRE	1116	PUKCHANG	0	4	4	4	4	4	4	3	3	2	0	-2	-4	-7	-9	-10	-7	-7	-6	-5	-5	-5	-6	-7	-7	-10	-9	-7	-4	-2	0	2	3	3	4	4	4
BEL	1125	HOUDENG	0	0	0	0	0	0	0	0	0	0	-1	-2	-3	-4	-5	-4	-3	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUL	1125	STARA ZAGORA	0	-10	-10	-10	-7	-3	-1	1	2	3	4	4	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	1	-1	-3	-7	-10	-10	-10	-10	-10
CLN	1125	PERKARA	0	3	3	2	1	0	-1	-2	-4	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-2	-1	0	1	2	3	3	3
			1																																			3
			2																																			1
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			7																																			-15
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			9																																			-15
CYP	1125	C GRECO	0	-25	-16	-8	-3	1	4	6	6	6	6	5	4	3	3	2	3	3	4	5	6	6	6	6	4	1	-3	-8	-16	-25	-25	-25	-25	-25	-25	-25	-25
LBY	1125	EL BEIDA	0	1	3	3	4	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4	3	2	1	-1	-3	-7	-20	-20	-20	-20	-7	-2	0
YUG	1125	PAZIN	0	-4	-3	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-3	-4	-5	-8	-10	-10	-10	-10	-10	-8	-5
YUG	1125	PODRAVSLATINA	0	-15	-15	-10	-7	-5	-4	-3	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-3	-4	-5	-7	-10	-15	-15	-16	-16	-15
AUS	1134	ARMIDALE NSW	0	2	4	4	4	2	0	-2	-5	-8	-10	-10	-9	-8	-3	0	2	3	4	4	3	1	-2	-8	-10	-6	-2	-1	0	0	0	-2	-4	-9	-10	-4	0
AUS	1134	COLAC VIC	0	0	-2	-5	-11	-18	-11	-6	-4	-3	-2	-2	-2	-3	-5	-8	-14	-17	-8	-4	-1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	2
KOR	1134	KIMPO	0	-11	-11	-11	-11	-11	-11	-11	-11	-6	-5	-2	0	0	0	0	0	0	0	0	0	0	-2	-4	-6	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
KOR	1134	KIMPO	0	-8	-8	-8	-8	-8	-8	-8	-8	-6	-5	-2	0	0	0	0	0	0	0	0	0	0	-2	-4	-6	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
KWT	1134	SULAIBIYA	0	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-5	-2	2	4	5	6	7	7	7	6	5	3	1	-2	-9	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
YUG	1134	BIOGRAD NM	0	-1	-3	-5	-7	-13	-10	-7	-5	-3	-1	2	4	5	5	5	5	4	2	-1	-3	-5	-7	-10	-13	-7	-5	-3	-1	2	4	5	5	5	5	4	2

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																												
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
CHN	1143	TENGCHONG	0	-1	-1	1	1	0	0	0	0	0	0	0	1	1	-1	-1	-1	-1	-2	-2	-2	-4	-4	-4	-4	-4	-6	-6	-6	-6	-4	-4	-2	-2	-1	-1
I	1143	C VATICANO	0	-1	-2	-2	-3	-3	-3	-2	-2	-1	-1	0	1	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	1	0	-1
KOR	1143	JEJU	0	0	0	0	0	0	-1	-4	-6	-7	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-6	-4	-2	0	0	0	0
KOR	1143	JEJU	0	7	7	6	4	1	-1	-4	-6	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-6	-4	-2	1	4	6	7
			1	6																																			
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			6	-6																																			
			7	-9																																			
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			9	-9																																			
PHL	1143	PORO LA UNION	0	-13	-16	-19	-19	-14	-9	-4	-1	0	0	-1	-2	-3	-5	-5	-5	-4	-4	-3	-2	-2	-1	0	1	3	4	4	4	3	1	0	-1	-2	-2	-3	-4
			1																																7				
			2																																6				
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			6																																-5				
			7																																-9				
			8																																-20				
			9																																-20				
YUG	1143	NOVA GRADISKA	0	1	1	1	1	1	1	1	2	2	2	2	2	1	0	-2	-3	-4	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-2	0	1	2	2	2	2	1
CHN	1152	TONGLIAO SHI	0	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-9	-7	-6	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-6	-7
G	1152	BIRMINGHAM	0	-22	-19	-15	-10	-8	-10	-12	-15	-21	-21	-20	-25	-22	-16	-16	-9	0	3	5	7	8	8	8	8	7	5	3	0	-2	-6	-15	-16	-18	-22	-25	-20
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			2	-22	-20	-20	-15	-12	-15	-16	-16	-22	-22	-21	-26	-22	-17	-17	-12	-3	2	4	5	6	6	6	6	5	4	2	-3	-5	-9	-16	-17	-18	-22	-26	-21
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
				00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
G	1152	GLASGOW	0	4	4	2	2	-3	-3	-6	-6	-17	-17	-18	-18	-18	-17	-18	-18	-18	-18	-13	-13	-4	-4	0	0	3	3	4	4	4	4	4	4	4	4	4	4
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			3	2	2	0	0	-4	-4	-6	-6	-17	-17	-19	-19	-19	-19	-19	-19	-18	-18	-13	-13	-5	-5	0	0	1	1	2	2	2	2	2	2	2	2	2	2
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			6	-5	-5	-10	-10	-10	-10	-12	-12	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18	-13	-13	-8	-8	-10	-10	-3	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
			7	-5	-5	-10	-10	-10	-10	-12	-12	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18	-13	-13	-10	-10	-10	-10	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
			8	-5	-5	-10	-10	-10	-10	-12	-12	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18	-13	-13	-10	-10	-10	-10	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
			9	-5	-5	-10	-10	-10	-10	-12	-12	-16	-16	-16	-16	-16	-16	-16	-16	-16	-18	-13	-13	-10	-10	-10	-10	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
G	1152	LONDON 1	0	-16	-16	-16	-16	-16	-16	-14	-12	-6	-2	1	4	5	6	7	7	7	7	7	6	5	4	1	-2	-6	-12	-14	-16	-16	-16	-16	-16	-16	-14	-14	-14
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G	1152	MANCHESTER	0	-19	-18	-14	-11	-10	-9	-8	-8	-8	-8	-8	-9	-10	-11	-18	-28	-24	-30	-16	-6	-2	2	4	5	6	6	6	5	4	2	-2	-6	-17	-14	-12	-14
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1152 KHZ

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																															
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ROU	1152	CLUJ	0	3	3	2	2	1	-1	-3	-6	-10	-10	-10	-6	-3	-2	0	2	2	3	3	3	3	2	1	0	-2	-5	-7	-10	-10	-10	-5	-3	0	1	2	3
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			9	-10																		-10																
SOM	1152	BOSASO	0	-10	-10	-10	-10	-10	-10	-10	-10	-8	-5	-3	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-5	-8	-10
* UAE	1152	AL NAKHIL	0	0	1	3	1	-3	-6	-5	-3	-10	-10	-6	-3	-1	0	0	0	0	-1	-13	-13	-13	-13	0	2	3	3	3	1	-14	-14	-14	-14	-14	-14	-14	-14
URS	1152	KOMSOMOLSKAMUR	0	5	5	5	5	5	4	4	3	3	2	1	0	-3	-5	-6	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-6	-3	0	1	2	3	3	4	4	4
AUS	1161	FINGAL TAS	0	-11	-14	-7	-2	1	3	4	4	3	1	-3	-11	-12	-6	-3	-2	-1	-2	-4	-8	-15	-7	-2	2	4	4	4	3	0	-4	-10	-14	-10	-7	-7	-8
AUS	1161	NARACOORTE SA	0	5	3	0	-5	-10	-10	-6	-2	-1	-1	-1	-3	-6	-10	-10	-5	1	4	6	6	6	5	4	4	3	1	0	0	0	1	2	4	5	6	6	6
F	1161	STRASBOURG	0	5	5	5	5	4	3	2	0	-5	-7	-10	-9	-9	-7	-5	0	2	3	5	5	5	5	5	4	2	0	-3	-5	-4	-4	-5	-5	-3	-1	2	4
URS	1161	DUCHANBE	0	8	8	8	8	7	7	6	5	4	1	-2	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-2	1	4	5	6	7	7
ZAI	1161	MATADI	0	-10	-10	-10	-10	-10	-7	0	3	3	3	0	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	0	3	3	3	0	-7	-10	-10	-10	-10
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ARS	1170	GURIAT	0	-12	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-12	-10	-10	-5	-3	1	3	5	6	6	6	5	3	1	-3	-5	-10	-10
BLR	1170	MOGHILEV	0	-4	-3	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	0	-2	-3	-4	-5	-5	-6	-6	-6	-6	-5	-5	-4	-4
CLN	1170	KOTUGODA	0	-10	-2	2	3	3	3	2	-2	-10	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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KOR	1170	SOSAN	0	4	4	3	3	3	3	3	3	3	3	4	4	4	4	3	3	1	-2	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-6	-2	1	3	3	4	4
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			3													1					-3												-3					1
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URS	1170	MAIKOP	0	5	4	3	2	0	-3	-6	-11	-11	-11	-11	-11	-11	-11	-11	-6	-3	0	2	3	4	5	5	5	3	3	2	2	2	2	2	3	3	4	5	5
URS	1170	ULAN UDE	0	3	3	3	3	3	2	2	2	1	0	-1	-2	-3	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3	-2	-1	0	1	2	2	2	3	3	3	3
YUG	1170	BELI KRIZ 2	0	-7	-8	-9	-10	-12	-12	-12	-12	-12	-12	-10	-9	-7	-5	-3	-2	-1	0	0	0	-1	-1	-1	-1	-2	-2	-2	-1	-1	-1	-1	0	0	-1	-4	-6
KRE	1179	JONGJU	0	3	3	2	1	0	-1	-3	-5	-7	-10	-13	-15	-15	-15	-15	-15	-15	-15	-13	-10	-7	-5	-3	-1	0	1	2	3	3	4	4	4	4	4	4	4
MLT	1179	DELIMARA	0	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-18	-15	-4	0	3	4	5	6	7	7	6	5	4	2	-2	-8	-15	-18	-20	-20
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MOZ	1179	QUELIMANE	0	3	3	2	1	1	-1	-2	-4	-7	-10	-14	-17	-17	-17	-17	-17	-17	-14	-10	-7	-4	-2	-1	1	1	2	3	3	3	3	3	3	3	3	3	3
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			3													-17																			1					
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			6													-14																			-5					
			7													-16																			-10					
			8													-17																			-15					
			9													-17																			-17					
* ROU	1179	BACAU	0	0	1	2	2	2	1	0	-8	-8	-8	-10	-10	-10	-10	-10	-8	-8	-8	0	1	2	2	2	1	0	-8	-8	-8	-10	-10	-10	-10	-10	-8	-8	-8
S	1179	SKAANE	0	1	1	1	1	1	1	1	2	2	2	1	-2	-5	-5	-5	-5	-5	-3	-3	-3	-3	-3	-3	0	1	2	2	2	1	1	1	1	1	1	1	1

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																												
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KOR	1188	INCHEON	0	-2	-1	0	1	1	2	2	3	3	3	3	3	3	3	3	3	3	2	2	1	1	0	-1	-2	-2	-4	-7	-7	-7	-7	-7	-7	-5	-4	-2
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AUS	1197	GOLD COAST QLD	0	5	4	2	0	-5	-13	-20	-11	-8	-7	-8	-13	-20	-9	-3	1	3	4	5	4	2	0	-5	-13	-20	-11	-8	-7	-8	-13	-20	-9	-3	1	3	4
D	1197	MUENCHEN ISMAN	0	5	5	4	0	-7	-14	-14	-14	-7	0	5	5	4	4	3	2	1	1	1	0	-1	-3	-7	-14	-14	-11	-7	-4	-2	0	1	2	3	3	4	4
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			9		-20										-20																								
D	1197	MUENCHEN ISMAN	0	-10	-10	-10	-5	4	9	9	9	4	-3	-15	-15	-15	-5	-1	0	-1	-5	-10	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-12	-9	-4	-1	0	-1	-4
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J	1197	KUMAMOTO	0	-1	-2	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	1	2	3	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	3	2	2	0
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	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
					00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	J	1197	NANAO	0	4	4	3	3	2	0	-3	-6	-9	-10	-11	-11	-10	-7	-4	-3	-2	-2	-2	-2	-3	-4	-7	-9	-9	-9	-8	-6	-4	-1	1	2	3	3	4	4
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				2																		-4																2
				3																		-6																0
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				7																		-15																-15
				8																		-15																-15
				9																		-15																-15
*	AFG	1206	MAZAR I SHARIF	0	-7	-7	-7	-7	-7	-7	-7	-7	-6	-4	-2	-2	-2	0	1	2	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-2	-2	-2	-4	-6	-7
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				9				-12																		-12													
	ALB	1206	KORCE	0	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-4	-3	-2	-2	-1	0	0	1	1	1	1	1	1	1	1	1	1	0	0	-1	-2	-2	-3	-4	-6	-6
	AUS	1206	CANBERRA ACT	0	-3	-11	-13	-12	-11	-7	-4	-3	-3	-4	-7	-11	-12	-13	-11	-3	2	3	3	3	3	2	2	1	0	0	0	0	1	2	2	3	3	3	3	2
	AUS	1206	GRAFTON NSW	0	4	4	3	2	1	0	-1	-1	-1	0	1	2	3	3	4	3	2	0	-3	-10	-10	-10	-5	-3	-1	-1	-1	-2	-4	-9	-10	-10	-4	-1	2	3
	F	1206	BORDEAUX	0	4	2	1	-1	-1	-1	0	1	1	1	1	0	0	-1	-1	0	1	3	5	6	7	7	7	7	7	7	7	7	7	7	7	7	7	6	5
*	MOZ	1206	INHAMBANE	0	0	0	0	-2	-3	-5	-8	-12	-15	-17	-17	-17	-17	-17	-15	-12	-8	-5	-3	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MRC	1206	TARFAYA	0	-11	-11	-11	-11	-11	-11	-10	1	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1	-4	-10	-11	-11	-11	-11	-11	-11	-11
	G	1215	BROOKMANS PARK	0	-6	-8	-11	-16	-14	-8	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3	2	1	0	-3	-6	-11	-16	-14	-10	-7	-5	-4	-4	-5
	G	1215	DROITWICH	0	6	6	6	6	6	6	6	6	6	5	4	3	2	1	-2	-4	-6	-6	-4	-3	-2	-1	-1	-1	-2	-3	-4	-6	-6	-4	-2	1	2	3	4	5
	G	1215	MOORSIDE EDGE	0	-2	0	2	3	3	4	4	4	4	3	2	1	0	-3	-7	-16	-15	-6	-2	0	1	2	3	4	4	4	4	3	2	1	0	-3	-7	-16	-16	-6
	G	1215	WESTERGLEN	0	-2	0	2	3	3	4	4	4	4	3	2	1	0	-3	-7	-16	-15	-6	-2	0	1	2	3	4	4	4	4	3	2	1	0	-3	-7	-16	-16	-6

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	MLT	1215	DELIMARA	0	-15	-4	0	3	4	5	6	7	7	6	5	4	2	-2	-8	-15	-18	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-18
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	YMS	1215	HISWA	0	3	3	3	3	3	3	2	2	1	0	-1	-2	-3	-5	-10	-10	-10	-11	-11	-12	-12	-12	-12	-11	-11	-10	-10	-10	-5	-3	-2	-1	0	1	2	2
	AUS	1224	SYDNEY NSW	0	3	4	3	0	-5	-17	-4	1	3	4	3	3	2	1	1	1	2	3	3	4	3	0	-5	-17	-4	3	3	4	3	3	2	1	1	1	2	3
	KRE	1224	UNSAN	0	2	0	-2	-4	-7	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-13	-14	-12	-7	-4	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	3	3
*	MOZ	1224	MOCIMBOA	0	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-10	-10	-5	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-5	-10	-17	-17	-17
**	URS	1224	DJAMBUL	0	4	4	4	3	3	2	2	1	0	-1	-2	-6	-8	-11	-15	-15	-15	-15	-15	-11	-8	-6	-2	-1	0	1	2	2	3	3	4	4	4	4	4	4
	BEL	1233	LIEGE	0	-2	-3	-5	-7	-10	-15	-20	-24	-24	-24	-24	-24	-20	-15	-10	-7	-5	-3	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1
	CYP	1233	C GRECO	0	-19	-16	-8	-3	1	4	6	6	6	6	5	4	3	3	2	3	3	4	5	6	6	6	6	4	1	-3	-8	-16	-19	-19	-19	-19	-19	-19	-19	-19
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	J	1233	AOMORI	0	1	2	2	2	2	2	2	2	1	1	1	0	0	-1	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	0	0	0	1	1
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	MRC	1233	TANGER	0	-10	-10	-10	-10	-10	-7	-3	-1	0	1	2	2	2	1	1	0	0	0	-1	0	0	0	1	1	2	2	2	2	1	-1	-3	-7	-10	-10	-10	-10
*	QAT	1233	AL KHAISAH	0	-8	-8	-8	-8	-8	-6	-2	0	3	5	7	8	8	8	8	7	5	3	-2	-2	-6	-15	-16	-18	-18	-18	-18	-18	-18	-15	-10	-10	-10	-10	-10	-8

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																																	
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AUS	1242	PT AUGUSTA SA	0	3	2	0	-3	-7	-12	-21	-16	-12	-11	-11	-12	-17	-20	-11	-6	-2	0	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
AUS	1242	SALE VIC	0	-6	-8	-10	-10	-8	-3	0	2	3	4	4	3	2	0	-2	-3	-5	-5	-4	-3	-1	1	2	3	4	4	3	2	0	-4	-10	-10	-10	-7	-5	-5
CHN	1242	JIAYIN	0	0	0	-1	-1	-2	-3	-4	-5	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-5	-4	-3	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	0
CHN	1242	SHENYANG	0	-1	-2	-3	-4	-5	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-5	-4	-3	-2	-1	-1	0	0	0	1	1	1	1	1	1	1	0	0	0	-1
F	1242	MARSEILLE	0	7	7	6	5	3	1	0	-1	-1	0	0	1	1	1	1	0	0	-1	-1	0	1	3	5	6	7	7	7	7	7	7	7	7	7	7	7	7
FNL	1242	VAASA 1	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	-3	-3	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
IRN	1242	JAZIREH SERRI	0	-17	-17	-17	-17	-17	-17	-17	-15	-10	-7	-4	-2	-1	1	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	1	0	-2	-4	-7	-15	-17
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THA	1242	SURAT THANI	0	-15	-15	-15	-15	-15	-15	-10	-7	-5	-2	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-1	-3	-5	-7	-10	-15	-15
G	1251	BURY S EDMUNDS	0	1	1	1	1	0	0	-1	-2	-3	-4	-6	-4	-3	-2	-1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IRN	1251	FARAHABAD SARI	0	-16	-16	-16	-15	-9	-5	-2	1	2	2	1	-1	-5	-15	-16	-9	-4	-2	-1	-1	-1	-2	-4	-9	-16	-12	-4	0	2	2	2	1	-2	-5	-13	-16
LBY	1251	TRIPOLI KM16	0	-7	-20	-20	-20	-20	-20	-20	-7	-3	0	1	2	3	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	3	2	1	0	-3
URS	1251	VLADIVOSTOK	0	1	2	3	4	5	5	4	3	2	1	1	1	1	1	1	0	-1	-3	-7	-9	-10	-10	-10	-10	-10	-10	-9	-7	-3	-1	0	1	1	1	1	1
URS	1251	VLADIVOSTOK	0	1	2	3	4	5	5	4	3	2	1	1	1	1	1	1	0	-1	-3	-7	-9	-10	-10	-10	-10	-10	-10	-9	-7	-3	-1	0	1	1	1	1	1
CVA	1260	S M DI GALERIA	0	-10	-20	-20	-20	-14	-7	-2	0	-7	-14	-15	-15	-15	-15	-15	-8	-2	0	1	1	1	1	0	-3	-8	-15	-15	-15	-15	-8	-3	0	1	0	-3	-7
G	1260	BRISTOL	0	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-11	-10	-9	-9	-7	-6	-4	-2	-1	0	1	2	2	2	2	1	0	-1	-2	-4	-6	-7	-9	-9	-10	-11
G	1260	WREXHAM	0	-2	-3	-5	-7	-9	-15	-15	-15	-15	-15	-15	-15	-15	-15	-9	-7	-5	-3	-2	-1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	-1

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GRC	1260	RHODOS	0	-17	-17	-22	-22	-17	-7	-1	2	4	5	6	6	6	6	6	6	6	6	5	4	2	-2	-8	-17	-22	-22	-17	-17	-17	-16	-16	-16	-16	-16	-16	-17
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IND	1260	AMBIKAPUR 2	0	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	0	0	-1	-1	-2	-3	-4	-4	-4	-4	-3	-2	-2	-1	-1
MOZ	1260	LICHINGA	0	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-5	-8	-12	-15	-17	-17	-17	-17	-17	-15	-12	-8	-5	-3
POL	1260	BOLESLAWIEC	0	5	5	5	4	4	3	1	0	-3	-5	-10	-14	-14	-19	-19	-19	-19	-19	-14	-14	-10	-5	-3	0	1	3	4	4	5	5	5	5	5	5	5	5
POL	1260	KIELCE	0	5	5	5	5	4	4	3	1	0	-3	-5	-10	-14	-14	-19	-19	-19	-19	-19	-14	-14	-10	-5	-3	0	1	3	4	4	5	5	5	5	5	5	5
POL	1260	OPOLE	0	5	5	5	4	4	3	1	0	-3	-5	-10	-14	-14	-19	-19	-19	-19	-19	-14	-14	-10	-5	-3	0	1	3	4	4	5	5	5	5	5	5	5	5
D	1269	NEUMUENSTER	0	2	3	3	3	2	2	1	-1	-4	-7	-11	-15	-15	-15	-15	-18	-15	-15	-15	-7	-4	-1	1	2	2	3	3	3	2	2	2	1	1	0	1	1	2
J	1269	TOKUSHIMA	0	-3	-3	-2	-1	0	0	0	0	0	-1	-2	-2	-4	-4	-4	-4	-3	-2	-1	0	1	2	3	3	4	4	4	4	4	3	3	2	1	-1	-2	-3	-3
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KWT	1269	KUWAIT	0	-15	-15	-15	-15	-15	-15	-15	-15	-5	-2	2	4	5	6	7	7	7	6	5	3	1	-2	-9	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
TUR	1269	OGUZELI	0	1	2	3	3	4	4	4	5	5	5	5	5	4	4	4	3	3	2	1	0	-1	-3	-5	-7	-12	-15	-15	-15	-15	-15	-15	-12	-7	-5	-3	-1
YUG	1269	NOVI SAD	0	-11	-5	-1	1	2	3	4	4	4	4	3	2	2	2	2	2	2	2	2	3	4	4	4	4	3	2	1	-1	-5	-11	-12	-12	-12	-12	-12	-12
F	1278	STRASBOURG	0	4	5	5	5	4	3	2	-1	-5	-7	-7	-7	-7	-7	-7	-4	-1	2	3	4	5	5	5	4	3	2	-1	-3	-5	-5	-4	-4	-5	-3	-1	2	3
IND	1278	LUCKNOW 2	0	-3	-2	-1	0	1	1	2	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4
UKR	1278	ODESSA	0	5	5	5	4	4	4	4	3	3	3	2	1	-1	-3	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-3	-1	1	2	3	3	3	4	4	4	4
IND	1287	CHHATARPUR 1	0	2	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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	PHL	1287	SAN FERNANDO P	0	-8	-8	-6	-4	-2	-1	0	1	1	2	2	2	3	3	3	3	3	3	3	2	2	2	1	1	0	-1	-2	-4	-6	-8	-8	-10	-10	-10	-10	-10
*	AFG	1296	KANDAHAR	0	3	3	3	3	3	3	2	2	1	1	0	-1	-3	-3	-5	-7	-7	-7	-7	-7	-7	-7	-7	-5	-3	2	3	3	3	3	3	3	3	3	3	3
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	AUS	1296	BRISBANE QLD	0	3	3	2	-2	-12	-7	0	2	3	2	1	-1	-3	-4	-3	-2	0	2	3	3	2	-2	-12	-7	0	2	3	2	1	-1	-3	-4	-3	-2	0	2
	AUS	1296	MT GAMBIER SA	0	2	1	-1	-4	-10	-10	-7	-3	0	1	2	3	3	3	3	3	3	3	2	1	-1	-3	-10	-10	-7	-2	0	1	2	3	3	3	3	3	3	2
	G	1296	ORFORDNESS	0	-12	-12	-12	-8	-3	2	6	7	8	9	9	8	7	6	2	-3	-7	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
	GIB	1296	GIBRALTAR	0	-7	-7	-7	-7	-7	-7	-7	-7	-5	-4	-2	-1	0	2	2	3	3	3	3	3	3	3	3	1	1	0	-1	-3	-5	-7	-7	-7	-7	-7	-7	-7
	SDN	1296	SENNAR	0	3	3	3	2	0	-2	-4	-6	-8	-8	-8	-6	-4	-2	0	2	3	3	3	3	3	3	0	-2	-4	-6	-8	-8	-8	-8	-4	-2	0	2	3	3
	BEL	1305	AYE MARCHE	0	0	-1	-2	-5	-6	-8	-10	-15	-18	-15	-10	-8	-6	-5	-2	-1	0	0	0	-1	-2	-5	-6	-8	-10	-15	-18	-15	-10	-8	-6	-5	-2	-1	0	0
	CLN	1305	KOTUGODA	0	-10	-2	2	3	3	3	2	-2	-10	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
	AUS	1314	BALLARAT VIC	0	3	2	1	0	-3	-7	-15	-15	-8	-5	-3	-2	-2	-2	-3	-5	-8	-15	-15	-7	-3	0	1	2	3	3	3	3	2	2	2	2	2	3	3	3
	AUS	1314	WOLLONGONG NSW	0	2	5	6	6	5	3	0	-5	-16	-14	-9	-8	-9	-16	-13	-4	1	4	6	6	6	5	2	-4	-19	-6	-1	1	2	2	2	1	-2	-8	-15	-3
	UAE	1314	SADIYAT	0	-8	-4	-1	0	1	1	1	0	-1	-4	-15	-8	-3	-1	0	0	0	0	-1	-3	-8	-15	-4	-1	0	1	1	1	0	-1	-4	-8	-4	-16	-16	-14
	URS	1314	STAVROPOL	0	8	8	8	7	6	6	5	3	1	-3	-8	-12	-17	-19	-20	-21	-22	-22	-22	-22	-22	-22	-22	-21	-20	-19	-17	-12	-8	-3	1	3	5	6	6	7
	YUG	1314	SKOPJE 2	0	-15	-15	-15	-15	-10	-8	-5	-3	-2	-1	0	1	2	2	3	3	3	3	3	3	3	2	2	1	0	-1	-2	-3	-5	-8	-10	-15	-15	-15	-15	-15
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	AUS	1323	GOSFORD NSW	0	0	0	0	1	2	2	2	2	0	-2	-8	-16	-7	-2	0	1	2	2	2	2	2	2	1	0	-3	-9	-16	-6	-2	1	2	2	2	2	1	0

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	CHN	1323	LHASA	0	1	1	1	1	1	1	1	2	2	2	2	1	1	-1	-1	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	1	1	2	2	2	2	1
	CYP	1323	ZYYI	0	-10	-10	-10	-10	-7	-5	-4	-2	-1	0	2	2	3	3	3	3	3	3	3	2	2	0	-1	-2	-4	-5	-7	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
*	DDR	1323	NAUEN	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
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*	DDR	1323	NAUEN	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	AUS	1332	BUNDABERG QLD	0	-4	-18	-3	2	4	4	3	1	-2	-6	-10	-13	-13	-9	-5	-1	2	4	4	4	1	-5	-15	-2	2	4	4	4	4	4	4	4	4	4	3	1
	I	1332	ROMA	0	6	5	2	-1	-6	-14	-14	-9	-6	-6	-8	-14	-14	-8	-6	-5	-6	-8	-14	-14	-8	-6	-6	-8	-14	-14	-5	-1	2	5	6	6	6	6	6	6	6
	I	1332	SQUINZANO	0	3	3	1	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	1	2	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5
	NGR	1332	MAINE SOROA	0	3	3	3	3	3	3	2	2	2	1	0	-2	-4	-6	-10	-12	-14	-15	-15	-15	-14	-12	-10	-6	-4	-2	0	1	2	2	2	3	3	3	3	3	3
	AUS	1341	GEELONG VIC	0	3	4	4	2	-3	-18	-2	3	4	3	0	-5	-15	-13	-9	-8	-10	-17	-10	-3	1	3	4	1	-6	-10	0	3	4	3	2	1	-1	-1	0	1	
	AUS	1341	NEWCASTLE NSW	0	-9	-1	3	5	5	5	4	2	0	-2	-4	-5	-4	-2	0	2	4	5	5	5	3	-1	-9	-12	-3	1	3	4	4	4	4	4	3	1	-3	-12	
	CHN	1341	YICHUN 2	0	0	0	0	0	-1	-2	-3	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-5	-4	-3	-2	-1	0	0	0	0	0	0	0	0	0	0	0	
	IND	1341	KOHIMA 2	0	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	1	1	0	-1	-2	-3	-4	-6	-7	-7	-7	-6	-4	-3	-2	-1	0	1	1	2	2	
	IND	1341	SURAT 2	0	-10	-10	-10	-8	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-8	-10	-10	-10	-10	-10	-10	
	KWT	1341	MAGWA	0	-5	-7	-7	-11	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-10	-8	-7	-5	-2	0	1	2	3	3	3	3	3	3	3	3	2	1	0	-3	
	F	1350	NICE	0	-10	-8	-5	-3	-2	-2	-3	-5	-8	-10	-8	-2	2	5	6	6	6	5	4	3	1	-1	-3	-3	-1	1	3	4	5	6	6	6	5	2	-2	-8	
	E	1359	FIGUERAS	0	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-22	-20	-15	-10	-6	0	3	6	7	8	8	8	8	8	8	8	8	8	3	-5	-15	-20	-20	-20	-22	
	G	1359	CARDIFF	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	
	G	1359	COVENTRY	0	-8	-9	-10	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-5	-6	-7	
	AUS	1368	GOULBURN NSW	0	4	3	1	-2	-12	-4	2	5	6	5	3	-2	-13	-4	0	2	3	4	3	2	0	-4	-13	-2	3	5	6	5	2	-4	-12	-2	1	3	4	4	
	G	1368	FOXDALE	0	0	2	2	2	3	3	2	1	0	-2	-3	-4	-6	-6	-6	-4	-3	-2	0	1	2	2	3	3	2	2	0	-2	-4	-4	-6	-6	-4	-4	-3	-1	

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	G	1368	LINCOLN	0	-1	0	1	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	1	0	-1	-2	-4	-7	-9	-12	-12	-12	-12	-12	-12	-12	-9	-7	-5	-2
*	IRN	1368	BANDARFARAHNAZ	0	-16	-16	-16	-15	-12	-12	-5	1	2	2	1	-5	-12	-15	-16	-12	-4	-2	-1	-1	-1	-2	-4	-12	-16	-12	-12	-5	-1	2	-1	-5	-12	-12	-13	-16
	ISR	1368	YAMIT	0	-9	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9
	J	1368	TAKAMATSU	0	-2	-2	-3	-3	-3	-3	-2	-2	-2	-2	-3	-3	-3	-2	-1	0	0	1	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	1	0	0
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	URS	1368	NOVOSIBIRSK	0	4	4	3	3	3	2	1	-1	-3	-5	-5	-6	-6	-6	-6	-6	-6	-6	-5	-5	-3	-1	1	2	3	3	3	4	4	4	4	5	5	5	4	4
	AUS	1377	MORNINGTON VIC	0	2	0	-3	-8	-15	-15	-10	-8	-7	-8	-10	-15	-15	-8	-3	0	2	4	4	5	5	4	3	2	2	1	1	1	2	2	3	4	5	5	4	-1
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	IND	1377	HYDERABAD 2	0	-10	-10	-10	-10	-6	-3	-2	-1	0	1	1	2	2	2	2	3	3	3	2	2	2	2	1	1	0	-1	-3	-4	-6	-10	-10	-10	-10	-10	-10	-10
	MRC	1377	ALHOCEIMA	0	-10	-10	-10	-10	-10	-10	-5	0	2	3	3	4	4	4	4	5	6	7	8	7	6	5	4	4	4	4	3	3	2	0	-5	-10	-10	-10	-10	-10
	AUS	1386	ADELAIDE SA	0	2	2	2	1	0	-1	-3	-7	-15	-15	-7	-3	0	1	3	3	4	4	4	4	4	4	3	3	1	0	-3	-7	-15	-15	-7	-3	-1	0	1	2
	IRN	1386	AHWAZ	0	4	4	4	4	3	3	2	1	-1	-2	-4	-7	-16	-16	-12	-16	-7	-7	-7	-7	-8	-10	-16	-15	-9	-6	-3	-1	0	1	2	3	4	4	4	4
	LIE	1386	VADUZ	0	3	0	-3	-7	-14	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-21	-11	-5	-1	1	3	5	6	7	7	7	7	7	7	7	6	4
	AUS	1395	LITHGOW NSW	0	0	2	3	4	4	2	-3	-15	-3	2	4	4	3	2	0	-1	-2	-1	0	2	3	4	4	2	-3	-15	-3	2	4	4	3	2	0	-1	-2	-1
	ISR	1395	EZYON	0	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9	-9
	URS	1395	AGHINSKOE	0	2	2	2	2	2	2	1	0	-1	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-1	0	1	2	2	2	2	2

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FNL	1404	HELSINKI 2	0	3	2	2	1	1	0	0	0	-1	-2	-3	-5	-7	-9	-10	-10	-10	-10	-10	-9	-7	-5	-3	-2	-1	0	0	0	1	1	2	2	3	3	3	3
GUI	1404	KIPE	0	2	2	2	2	2	2	2	2	2	2	2	1	0	-1	-2	-3	-4	-4	-5	-5	-6	-6	-6	-6	-6	-6	-5	-5	-4	-3	-2	-1	0	1	1	2
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J	1404	HAMAMATSU	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	-1	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-4	-4	-3	-3	-2	-2	-1
J	1404	KUSHIRO	0	1	1	2	2	2	2	2	2	1	1	0	0	0	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	0	0	1	1	1
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J	1404	SHIZUOKA	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-1	-1	0	1	1	2	2	2	2	2	2	1	0	0	-1	-2	-3	-3	-3
KRE	1413	ICHON	0	-3	-9	-9	-3	1	2	3	4	4	3	2	1	-3	-9	-17	-18	-17	-10	-3	-3	-3	-10	-10	-17	-18	-17	-9	-3	-3	-3	-3	-3	-3	-3	-3	-3
OMA	1413	MASIRAH 1	0	-2	0	1	2	2	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-4	-6	-7	-7	-7	-7	-6	-6	-6	-6	-6	-7	-7	-7	-7	-6	-4
OMA	1413	MASIRAH 2	0	3	3	3	3	2	2	1	0	-2	-4	-6	-7	-7	-7	-7	-7	-6	-6	-6	-6	-6	-7	-7	-7	-7	-6	-4	-2	0	1	2	2	3	3	3	3	3

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D	1422	SAARBRUECKEN	0	5	5	6	6	6	6	6	6	6	6	6	6	5	4	3	2	0	-1	-3	-5	-7	-7	-7	-7	-7	-7	-7	-7	-7	-5	-3	-1	1	2	3	4
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D	1422	SAARBRUECKEN	0	4	5	5	5	5	5	5	5	5	5	5	4	4	3	3	1	0	0	-1	-2	-3	-3	-1	-1	-1	-1	-2	-3	-3	-3	-3	-1	0	2	3	3
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			9							-20																												
J	1422	YOKOHAMA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	0	0	0	0	0	0	0
DNK	1431	KOEBENHAVN	0	-7	-3	0	2	4	5	6	6	7	7	7	7	7	7	7	7	7	6	6	5	4	2	0	-3	-9	-27	-20	-8	-5	-4	-4	-4	-5	-7	-20	-27
G	1431	SOUTHEND	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
J	1431	KUSHIMOTO	0	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-3	-3	-3	-3	-4	-4	-4	-4	-4	-4	-4	-4	-3	-3	-3	-2	-2	-2	-2	-1	-1	-1	0	0	1	1
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1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
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J	1431	WAKAYAMA	0	-2	-3	-4	-5	-5	-4	-3	-2	0	1	2	2	3	3	3	3	3	2	2	1	1	0	-1	-2	-4	-6	-6	-5	-4	-3	-2	-1	-1	-1	-1	-1
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ARS	1440	DAMMAM	0	-13	-11	-10	-5	1	2	3	3	4	4	4	3	3	2	1	-5	-10	-11	-13	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
ISR	1440	YAMIT	0	-9	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9
KRE	1440	NAMPO	0	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-18	-13	-9	-7	-4	-1	1	2	4	4	2	1	-1	-6	-7	-9	-13	-18	-20	-20
LUX	1440	MARNACH	0	2	4	5	6	6	6	6	5	3	0	-5	-10	-9	-8	-6	-5	-3	-3	-5	-8	-11	-14	-15	-16	-16	-13	-9	-7	-8	-11	-13	-14	-11	-8	-4	-1
			1			4			5			3			-8			-8		-4			-9			-8			-10			-10			-7			-4
			2			2			3			1			-11			-9		-6			-8			-8			-11			-12			-8			-5
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LUX	1440	MARNACH	0	0	0	0	0	0	0	-1	-2	-4	-5	-7	-7	-8	-8	-8	-8	-8	-7	-7	-5	-4	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0
TUR	1440	CARSAMBA	0	-15	-15	-6	-5	-5	-5	2	3	3	4	4	4	3	2	2	1	-1	-3	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
ARS	1449	JEDDAH	0	-9	-8	-7	-7	-6	-3	0	3	3	4	5	5	5	5	5	5	5	4	3	3	0	-3	-6	-7	-7	-8	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
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AUS	1449	MUDGEE NSW	0	-7	-13	-16	-10	-6	-3	-2	-1	0	0	0	0	-1	-3	-5	-8	-13	-16	-9	-5	-2	0	1	2	3	3	4	4	4	3	3	3	2	1	-1	-3
I	1449	GOLFO BARATTI	0	4	1	0	-2	-4	-5	-5	-5	-4	-4	-3	-1	-1	0	0	-1	-2	-3	-4	-5	-5	-5	-4	-2	-1	-1	3	5	6	7	7	7	7	7	6	5

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IRN	1449	BANDAR SHAH	0	2	2	2	3	3	3	3	3	3	3	3	3	2	2	2	1	0	-1	-4	-5	-8	-12	-15	-16	-16	-16	-16	-16	-14	-11	-8	-5	-3	-1	0	1
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KOR	1449	ULSAN	0	-2	-2	-3	-3	-3	-4	-4	-5	-6	-7	-7	-8	-8	-8	-7	-7	-6	-5	-4	-4	-3	-3	-3	-2	-2	-2	-1	-1	-1	0	0	0	-1	-1	-1	-2
LBY	1449	MISURATA	0	-24	-24	-15	-14	-5	0	1	2	3	3	4	4	5	5	5	5	5	5	5	5	5	4	4	3	3	2	1	0	-5	-14	-15	-24	-24	-24	-24	-24
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G	1458	BROOKMANS PARK	0	-6	-8	-10	-10	-8	-5	-2	0	2	3	3	4	4	4	4	4	4	4	4	4	4	4	3	2	1	0	-2	-6	-9	-10	-9	-7	-6	-5	-5	-5
G	1458	LANGLEY MILL	0	-19	-12	-8	-7	-7	-8	-12	-19	-25	-22	-25	-25	-24	-25	-12	-3	-1	3	4	5	5	6	6	5	5	4	3	-1	-3	-10	-25	-24	-25	-24	-22	-25
G	1458	MANCHESTER	0	-4	-10	-15	-13	-11	-13	-15	-15	-15	-12	-11	-13	-15	-15	-15	-13	-11	-15	-15	-7	-1	2	3	4	5	5	5	5	5	5	5	5	5	4	3	0
ISR	1458	EZYON	0	-10	-10	-10	-10	-10	-9	-9	-9	-8	-8	-6	-5	-4	-3	-2	0	2	3	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-8	-8	-9	-9	-9
PHL	1458	IBA ZAMBALES	0	6	4	1	-3	-6	-9	-6	-2	-6	-10	-6	-1	2	4	6	7	7	7	6	4	1	-3	-9	-5	-12	-15	-15	-10	-6	-2	2	4	5	6	7	6
MCO	1467	MONTE CARLO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-3	-20	-3	-1	0	0	0	0	0	0	0	0	0	0
THA	1467	BANGKOK	0	-1	-2	-6	-8	-10	-15	-15	-15	-15	-15	-15	-15	-15	-10	-7	-5	-2	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1
UKR	1467	KIEV	0	3	3	2	0	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	0	2	3	3	3	4	4	5	5	5	5	5	5	5	5	4	3
CHN	1476	WENCHENG	0	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3	-3	-2	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-2	-3	-3	-4	-4
IND	1476	JAIPUR	0	-10	-10	-8	-5	-3	-1	0	1	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	1	0	-1	-3	-5	-8	-10	-10	-10	-12	-13	-12	-10

1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																																	
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MLA	1476	TUARAN	0	-8	-3	0	2	3	4	4	3	2	0	-4	-8	-16	-22	-22	-22	-22	-22	-22	-16	-16	-22	-22	-22	-22	-22	-22	-22	-16	-16	-16	-22	-22	-16	-16	-14
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NZL	1476	AUCKLAND	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	1	0	-2	-4	-6	-7	-8	-10	-10	-10	-10	-10	-9	-7	-5	-4	-2	0	1	2	3
URS	1476	VLADIVOSTOK	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	2	1	0	-4	-7	-9	-10	-10	-9	-7	-4	0	1	2	3	3
AUS	1503	BATHURST NSW	0	4	2	-1	-6	-14	-4	1	3	4	5	4	4	4	4	4	4	5	5	4	2	-1	-6	-13	-3	-1	3	4	5	5	4	4	4	4	4	5	5
AUS	1503	MELBOURNE VIC	0	-10	-15	-16	-16	-16	-15	-13	-10	-5	-2	0	1	2	3	4	4	3	3	2	1	1	1	1	1	2	2	3	3	4	4	3	2	1	-1	-3	-7
EGY	1503	ISMAILIA	0	3	3	2	1	0	-2	-6	-10	-10	-10	-10	-10	-6	-2	0	1	2	3	3	3	2	1	0	-2	-5	-5	-5	-5	-5	-5	-5	-2	0	1	2	3
IRN	1503	BUSHEHR	0	1	-2	-6	-12	-16	-16	-16	-16	-16	-12	-6	-2	1	2	3	4	3	2	1	-2	-6	-12	-16	-16	-16	-16	-16	-12	-6	-2	1	2	3	4	3	2
POL	1503	STARGARD SZCZE	0	1	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	1
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SOM	1503	KISMAIO	0	3	3	3	3	3	3	3	3	3	2	2	1	0	-2	-3	-5	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-5	-3	-2	0	1	2	2	3	3
ARS	1512	JEDDAH	0	-15	-15	-15	-15	-15	-15	-15	-15	-15	-13	-11	-10	-5	2	3	4	4	5	5	5	4	4	3	2	-5	-10	-11	-13	-15	-15	-15	-15	-15	-15	-15	-15
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CHN	1512	TAIZHONG SHI	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-8	-6	-5	-3	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-2	-3	-5	-6	-8	-8

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J	1512	MATSUYAMA	0	0	0	0	-1	-1	-2	-2	-2	-1	-1	0	0	1	1	2	2	2	3	3	3	2	2	2	1	1	0	0	-1	-1	-2	-2	-2	-1	-1	0	0
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KRE	1512	KILJU	0	3	3	3	3	2	0	-2	-4	-8	-14	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-14	-8	-4	-2	0	2	3	3	3	3	3	2	1	2	3
* ARS	1521	DUBA	0	-8	-8	-12	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-12	-8	-8	-3	1	4	6	7	8	7	6	4	1	-3	-8
CHN	1521	URUMQI SHI	0	-18	-18	-14	-10	-6	0	3	5	6	5	3	0	-6	-10	-14	-18	-18	-18	-18	-18	-14	-10	-6	0	3	5	6	5	3	0	-6	-10	-14	-18	-18	-18
G	1521	NOTTINGHAM	0	-1	1	2	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	2	1	-1	-3	-6	-10	-15	-15	-15	-15	-15	-15	-15	-15	-10	-6	-3
IRN	1521	BANDARFARAHNAZ	0	-16	-16	-16	-15	-9	-5	-2	1	2	2	1	-1	-5	-15	-16	-9	-4	-2	-1	-1	-1	-2	-4	-9	-16	-12	-4	0	2	2	2	1	-2	-5	-13	-16
KEN	1521	MOMBASA	0	3	3	3	2	2	0	-2	-3	-4	-6	-8	-8	-10	-10	-10	-8	-6	-5	-4	-3	-2	0	2	2	3	3	3	3	3	3	3	3	3	3	3	3
KRE	1521	PYONGYANG	0	3	3	2	1	-1	-4	-7	-10	-15	-21	-25	-18	-16	-16	-18	-25	-21	-15	-10	-7	-4	-1	1	2	3	3	3	2	2	1	1	1	1	2	2	3
ARS	1530	GIZAN	0	-15	-15	-15	-15	-13	-11	-10	-5	2	3	4	4	5	5	5	4	4	3	2	-5	-10	-11	-13	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15
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G	1530	HITCHIN	0	0	0	0	0	0	-1	-1	-2	-3	-4	-6	-7	-8	-9	-11	-14	-15	-15	-15	-14	-11	-9	-8	-7	-6	-4	-3	-2	-1	-1	0	0	0	0	0	0
KRE	1530	RYONGRIM	0	3	3	2	1	-1	-4	-7	-10	-15	-21	-25	-18	-16	-16	-18	-25	-21	-15	-10	-7	-4	-1	1	2	3	3	3	2	2	1	1	1	1	2	2	3
CHN	1548	RUSHAN	0	-8	-8	-8	-8	-8	-8	-8	-8	-8	-7	-5	-4	-2	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-4	-5	-7
CLN	1548	PERKARA	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-7	-4	-2	-1	0	1	2	4	7	7	7	7	7	4	2	1	0	-1	-2	-4	-7	-10	-10	-10	-10	-10	-10
G	1548	BRISTOL	0	-16	-13	-10	-10	-10	-10	-10	-11	-16	-16	-16	-9	-5	-2	0	1	2	3	4	4	4	4	4	4	4	4	4	4	3	2	1	0	-2	-5	-9	-16

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J	1557	ATAMI	0	-9	-10	-11	-12	-12	-12	-12	-12	-12	-12	-11	-11	-10	-8	-6	-4	-2	-1	0	1	1	2	2	2	2	2	2	2	1	1	0	-1	-2	-4	-6	-7
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			9																								-15										
MLT	1557	CYCLOPS	0	-20	-20	-20	-20	-14	-3	0	3	4	5	6	6	7	7	7	7	7	7	6	6	5	4	3	0	-3	-14	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
			1															6																					
			2															4																					
			3															1																					
			4															-14																					
			5															-20																					
			6															-20																					
			7															-20																					
			8															-20																					
			9															-20																					
YUG	1557	OSIJEK	0	3	3	2	1	0	-1	-3	-5	-5	-5	-5	-5	-3	-1	0	1	2	3	3	3	1	0	-2	-6	-7	-9	-10	-10	-10	-9	-7	-6	-2	0	1	3
IND	1566	NAGPUR	0	0	0	-1	-1	-2	-2	-2	-3	-4	-3	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
KOR	1566	JEJU	0	-8	-8	-8	-5	-3	1	4	5	6	5	2	-1	-5	-7	-8	-8	-8	-8	-8	-8	-8	-7	-5	-2	1	4	5	6	4	2	-1	-4	-7	-8	-8	-8
			1									6																	6									
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			9									-15																	-15									
KOR	1566	JEJU	0	6	6	4	2	-1	-3	-6	-8	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-8	-6	-4	-2	1	4	5	6	6
			1																																				6
			2																																				5
			3																																				4
			4																																				1
			5																																				-1
			6																																				-4
			7																																				-7
			8																																				-10
			9																																				-15

	1	2	3	4	AZIMUT - AZIMUTH - ACIMUT																													
					00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	SUI	1566	SARNEN	0	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30
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*	TUN	1566	SFAX	0	-14	-14	-14	-14	-14	-14	-14	-9	-5	-1	1	1	1	1	-1	-4	-10	-10	-10	-11	-10	-10	-10	-4	-2	1	1	1	1	-1	-5	-9	-14	-15	-15	-15
	AUS	1575	MELBOURNE VIC	0	-5	-4	-4	-5	-7	-11	-17	-10	-4	0	2	3	4	5	5	4	4	3	3	3	3	3	3	4	4	5	5	4	3	2	0	-4	-10	-17	-11	-7
	AUS	1575	WOLLONGONG NSW	0	-7	0	4	5	6	5	3	0	-4	-10	-17	-20	-20	-14	-7	-2	1	4	5	6	5	3	-2	-14	-8	-1	2	3	4	4	4	4	3	1	-3	-14
	CHN	1575	YUMEN SHI	0	-10	-10	-10	-10	-9	-8	-6	-4	-2	0	0	1	2	2	2	2	2	1	0	0	-2	-4	-6	-8	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
	THA	1575	AYUTTHAYA	0	5	5	4	3	2	1	0	0	0	1	2	3	4	5	5	5	4	3	1	-1	-3	-4	-5	-4	-4	-3	-4	-5	-5	-4	-3	-1	1	2	4	5
	THA	1575	AYUTTHAYA	0	4	5	5	5	5	5	5	5	4	4	3	2	1	0	-1	-2	-3	-4	-5	-4	-2	-1	0	0	-1	-2	-4	-5	-4	-3	-2	0	0	2	3	4
	CHN	1593	JIAMUSI	0	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10	-9	-7	0	-4	-3	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-4	-6	-7
	CHN	1593	TAXKORGAN	0	-7	-5	-4	-2	-1	0	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	0	-1	-2	-4	-5	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8
	CHN	1593	URUMQI SHI	0	-10	-10	-10	-10	-10	-10	-9	-8	-6	-4	-2	0	0	1	2	2	2	2	2	1	0	0	-2	-4	-6	-8	-9	-10	-10	-10	-10	-10	-10	-10	-10	-10
	NZL	1593	AUCKLAND	0	1	-1	-3	-4	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-4	-3	-1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
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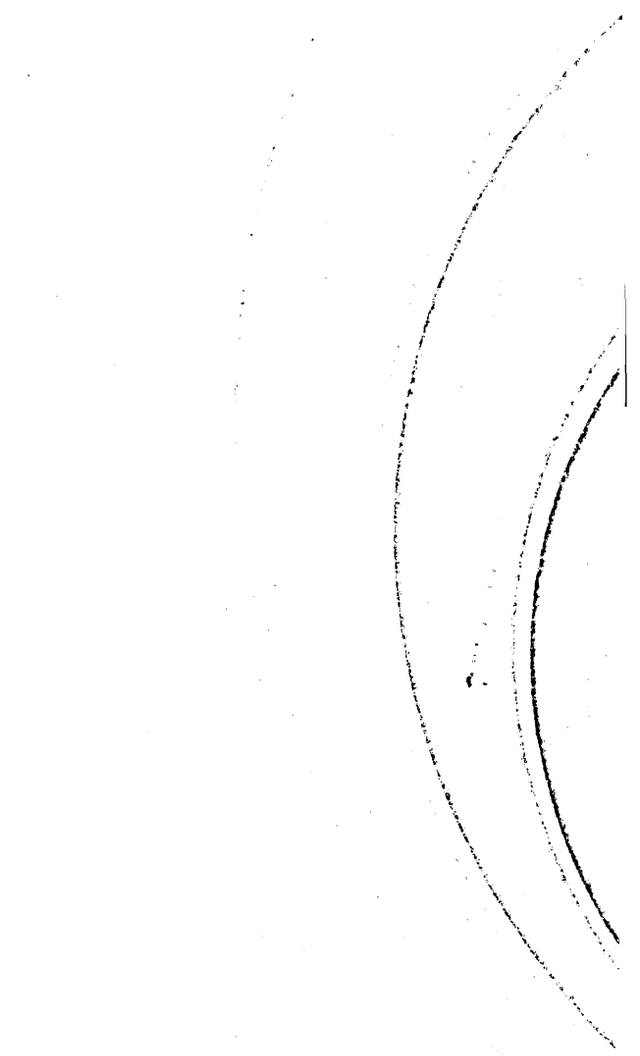
	URS	1593	IRKUTSK	0	3	2	2	2	2	3	4	4	5	5	5	4	3	2	-1	-4	-7	-8	-8	-8	-8	-8	-8	-8	-8	-8	-7	-4	-1	2	3	4	5	5	5	5
	URS	1593	KHABAROVSK	0	4	4	3	3	3	3	3	4	4	5	5	5	4	3	2	0	-4	-6	-12	-12	-12	-12	-12	-12	-12	-6	-4	0	2	3	4	5	5	5	4	4



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